

Bench-top Autoclave/Steam Sterilizer & Class



- Steam Sterilization is the most practicable has high lethality, it is rapid and non-toxic. devices in healthcare premises because it method for sterilizing reusable medical
- Bench-top steam sterilizers contribute to sterilizing services. condition that in the absence of a central piercing and beauty treatment on the medical practices such as tattooing, body in primary healthcare, but also in nonthe prevention of cross infection, especially

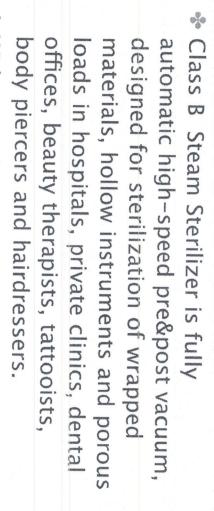
tertlization temperature bands, holding times and pressures for steam sterilization

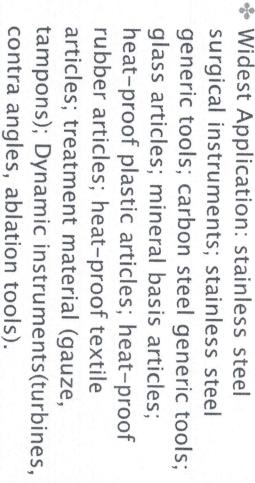
Sterilizing temperature range (°C)	zing temperature range (°C)	Approximate	Minimum hold
Minimum	Maximum	pressure(bar)	time(minutes)
134	137	2.25	ω
126	129	1.50	10
121	124	1.15	15

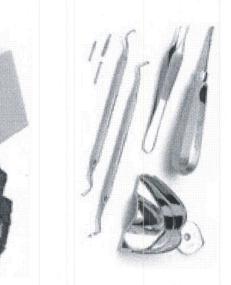
Recommendation: Use the highest temperature compatible with the load item.

what is class is (Types of sterilization oyole)?

Class S		✓ Class B			Class N	Cycle Type
Active (forced air removal)		Active (forced air removal)		displacement)	Passive (gravity	Air removal
Sterilization of Specific products as specified by the manufacturer.		Provides medical grade sterilization, processing any load a Big sterilizer(En 285) can process		No transportation, no storage, for immediate use only.	Sterilization exclusively of Naked solid products.	Classification
It is essential that this cycle is used only for the types of load it was designed for.	Porous Loads (e.g. fabrics, swabs, dressings)	Wrapped or non-wrapped hollow items.(e.g. cannulae within dimensions specified by sterilizer manufacturer)	Wrapped or non-wrapped solid items.(e.g. forceps, dental probes)	those with lumens.	Non-wrapped solid items. Not to	Load type









Why fractioned pre vacuum (Air remove type)?

	✓ Fractioned pre vacuum air remove type	Vacuum air remove type	Gravity displacement type	Air remove Type
The effectiveness of air removal contribute to the sterilization effect as spores and bacteria are found to be survive at 134 °C (273 °F) in air pockets, which will be remain in hollow, porous, wrapped and fabrics items.	A pre vacuum pump removes the air from the chamber and then use a succession of steam pulse, in which the chamber is alternately pressurised and then depressurised to below atmospheric pressure. This process is repeated 1 to 4 times (Optional). With each cycle of vacuum and steam-pulse, the air fraction decreases. This ensure the complete air removal and steam could penetrate throughout the entire load much more efficiently.	Have a pump or some other active method to remove air from the chamber and load.	Displace air passively from the chamber and load by steam generated within the sterilizer chamber or in a separate boiler within the sterilizer's casing. This is known as a 'Type N'.	Description



chemical heat-sensitive indicator sheet It comprises several sheets of paper wrapped in a small packet in the middle of which there is a pack one tends to assume that the sterilizer is capable of sterilizing all types of loads and items. sterilize object". If the sterilizers is capable of providing sufficient steam penetration into this test representative of the small porous type load that is often considered to be "the most difficult to in compliance with EN285. The B&D test pack, also called steam penetration test pack, is The Bowie & Dick test is prescribed in the type test procedure for steam sterilizers that are build

circumstances which can lead to a failure of the test. steam into the test pack. The presence of air within the pack, due either to an inefficient air removal stage, an air leak during this stage or non-condensable gases in the steam supply, are porous load sterilizer. A successful Bowie and Dick test indicates rapid and even penetration of The Bowie & Dick test was conceived as a test for successful air removal from high vacuum

Test result:

*Test passed: the entire surface of the indicator sheet has changed color

such as the center of the indicator sheet being paler or of a different color than the edges, indicates that there was an air pocket present during the cycle due to sterilizer malfunction. *Certain areas of the indicator sheet have not changed color. Any unexpected color change,



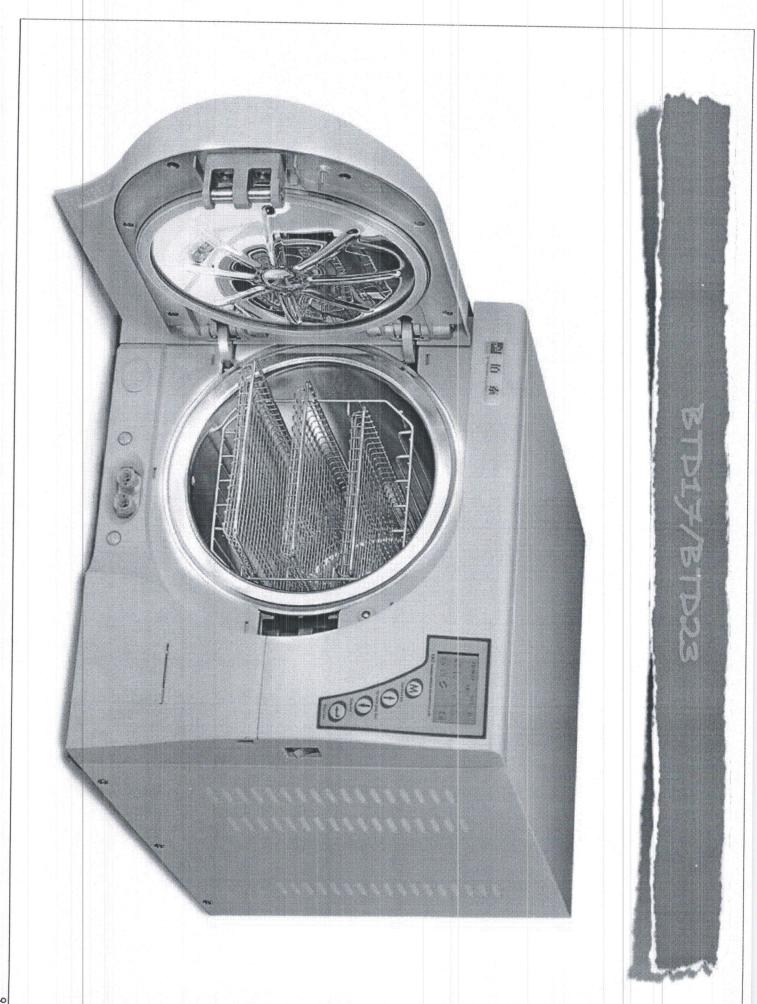
other side. An indicator strip is placed inside of the capsule The Helix Test, is representative of the type A hollow load. It consists of a 1500mm long tube that is open on one side and closed with a capsule on the

sterilization, that is The test is used to validate the sterilizer performance in terms of hollow A load

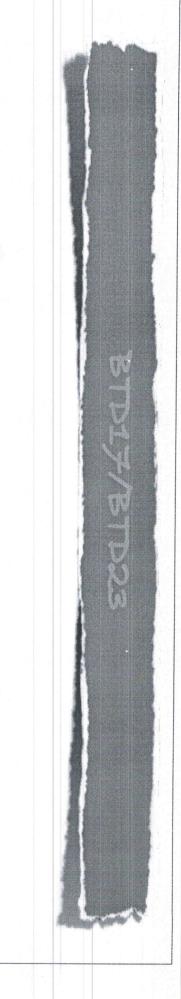
* Pre-vacuum efficiency; rapid and uniform steam penetration. *Temperature and pressure of saturated steam achieved during the holding

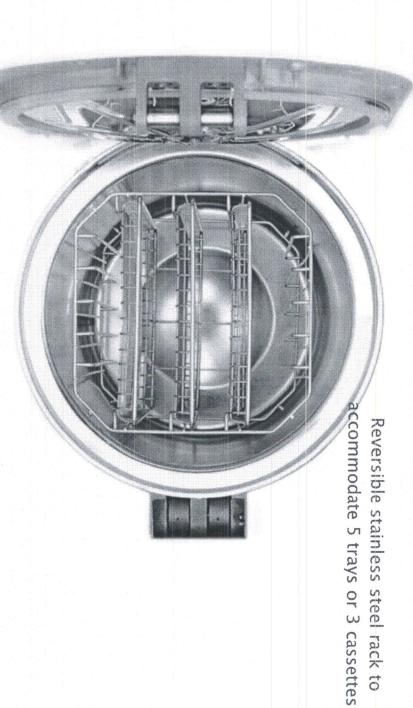
Test result:

maltunction. that there was an air pocket present during the cycle due to sterilizer air inside the capsule. Insufficient color change of the indicator strip indicates stTest Failed: part of the chemical indicator has not turned dark, due to residual *Test passed: the chemical indicator of strip from the capsule has turned dark.



Y





High quality Stainless steel chamber rooms without welding chink, dealing with electro-polish finish OEM for many a lot of world-wide famous autoclave suppliers



Notified Body No: 1293





NOTIFIED BODY No. 1293

EC CERTIFICATE

FULL QUALITY ASSURANCE SYSTEM

Directive 93/42/EEC on Medical devices, Annex II (with the exemption of section 4) transposed into "Slovak government decree No. 572/2001 Coll. of Laws" as amended

No. 40052/101/1/2008/CE

We hereby declare that an examination of the profes mentioned full guality brand since in their been manned on discussing the inspacement of the material beganning to ordered the profession of whites the professional formation of the full professional formation of the full professional full professional formation of the full country assurance systems confidently and the substance professions of the adventuationed distribution between the procession of the adventuationed distribution of the products covered by this confidence is given in the Appendix.

Applicant

P&T (Ningbo) Medical Equipment Co., Ltd Housing Section, Yinxian Avenue, Ningbo 316153, China

Product(s)

Product type(s)

Classification of modical device

Scope of quality system

Final report number

Medical Devices - Class fix

OTDITA, GIDZAA

Quality of design, production, storage and distribution

December 3", 2008 December 7", 2013



Karol Glamos

of effective Directives of Episod Council are

The Author Budy has maked by graph, system in accordance with the Direction SUAZEEC Annes, II (3) and found that the graph which meet the construction of the Direction SUAZEEC Annes, II (3) and the accordance state of the Direction SUAZEEC Annes, II (3) and development of the production of the Direction of the

B Class

Automatic Door BIDITY/BID23 Features

A double interlocking robotized
mechanism with
triple-protection
system which
ensures complete
safety and
usability

vacuum drying for directly

using after sterilization Vacuum

4 time pre-

preceding

European B standard, up to

Pre-vacuum

Vacuum
measurement
reaches -0.80bar.
Double head
robust high volume vacuumpump for fast and
efficient airremoval.

LCD CONTRACTOR OF THE PROPERTY OF THE PROPERTY

Printer System BIDIF/BIDD3 Features

Equipped with an integrated thermal printer which allows the complete recording of all the cycle data about temperature, pressure and time consumption.

their navigation in the various cycle

symbols guide the users throughout

The four lines of characters and the included

phases.

Chamber

stretched shape stainless steel 304 sterilization chamber ensures higher durability, quality and easy-cleaning

Cycle Program

> Safety Device

BIDIF/BID23 Footures

Integrated
evaluation system
of the sterilization
process. Selfdiagnosis of the
sterilizer
functioning and
self-leveling
hydraulic system.

needles, etc) and

(turbines, hand pieces,

porous materials, both pouched and not. steel generic tools, etc), hollow bodies

application of solid objects (stainless steel

definition) for wide

There are 6 programs (available), 5 (pre-set), 1 (customer's

instruments, carbon

Control
System

Computerized control system by precise microprocessor controller to ensures even temperature distribution to avoid the damage to the instruments under high temperature and pressure



Automatic
(behind ports)
and manual (front
ports) distilled
water feeding and
drainage are both
available for
easily handling

Very fast cycle as steam is always ready for fast sterilization.

Pure and waste water bottle ensure the internal circulation of vapor and water.

BIDIF/BID23 Specification

40 Feet Container	Carton box/around 198PCS in a	Packing condition
730×600×680mm	670×600×680mm	Packing dimension(L ×W ×H)
632×443×475mm	572×443×475mm	Overall dimension (L ×W ×H)
75KGS	70KGS	Gross weight
57KGS	52KGS	Net weight
250mm×450mm	250mm×350mm	Chamber dimension (Diameter × Depth)
23L	727	Chamber volume
ım (1-4 times)	Fractioned pre Vacuum (1-4 times)	Air Removal
N 13060)	B Class(as per EN 13060)	Sterilization type
42/CEE)	IIa(as per 93/42/CEE)	Classification
ស	0.21Mpa	Rated working pressure
nition Between	121°C & 134°C & Customer Definition Between 105°C-134°C	Sterilization temperature
2000W	1800W	Nominal power
ZHC	50HZ~60HZ	Frequency
V C	220/240 V	Nominal voltage
BTD23	BTD17	Vacuum Steam Sterilizer

BIDIF/BID23 Specification

Warranty	Tray holder	Tray	Rack	Miscellaneous	Sterilization Chamber	Door & Lock	Water feeding & drainage	Water tank	Operation language	LCD	Bacteriologic filter	Printer & interface	Drying	Test cycles	Sterilization cycles	Vacuum Steam Sterilizer
18months	1PC tray holder for removing trays from the sterilization chamber	5PCs stainless steel wire trays	1PC reversible rack	fully micro-processor controlled	304Stainless steel without weldir	auto-locking door	automatically and manually	distilled water and used water tanks	English, Chinese (other language	four line of characters and includ	0.22µm debris filter	integrated thermal printer/USB I	Post vacuum drying	Vacuum Test/Leakage Test	3 preset+1 customer definition	BTD17
	s from the sterilization				ng chink			nks	e could be translated)	included symbols LCD screen		Interface				BTD23

Sterilization cycles

Dual-wrapped hollow(hand pieces, forceps, scissors,	Dual-wrapped solid(probes, tweezers, burs)	Type Single-wrapped hollow(hand pieces, forceps, scissors,	Single-wrapped solid (probes, tweezers, Load burs)	Single/Dual Wrapped Porous (cotton, gauze)	Unwrapped Porous			Total cycle time for full load including drying time (M)	Total cycle time for small load including drying time (M)	Holding Duration time(M)	Pre-vacuum Times	Pressure(Bar)	Temperature (°C)	vacuum Steam Sterilizer	V
1.50	1.50	3.00	3.00	0.65	1.00	BTD17	Max Load (Kg)	45	30	G	3	2.1	134	134°C Porous	
1.80	1.80	3.75	3.75	1.1	1.50	BTD23	d (Kg)	6	0			1	4	orous	
1.50	1.50	3.00	3.00	0.65	1.00	BTD17	Max Load (Kg)	60	50	25	3	1.1	121	121°C Porous	SI
1.80	1.80	3.75	3.75	1.1	1.50	втр23	ad (Kg)	0	0	5	w	.1	21	Porous	Sterilization Cycles
1	1	1	1	1	6.00	BTD17	Max Load (Kg)	35	ν			2	P	134°C Hollow	n Cycles
1	-	,	1	1	7.50	BTD23	ad (Kg)	tri Tri	25	4	<u> </u>	2.1	134	Hollow	
For emergency and follow the instructions provided by the instrument manufacturer							Max	1	_	4-40	0-4	1-2.1	105-134	Customer definition	
		with load				Load		20		3.30	ω	2.1	134	Helix B&D	Test
	Empty Chamber without any load or test pack only											-0.8	_	Air leakage	Test Cycles