

The picture is for reference only. The additional equipment and accessories displayed are not included in the standard package.

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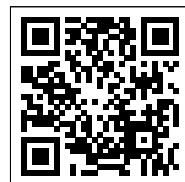
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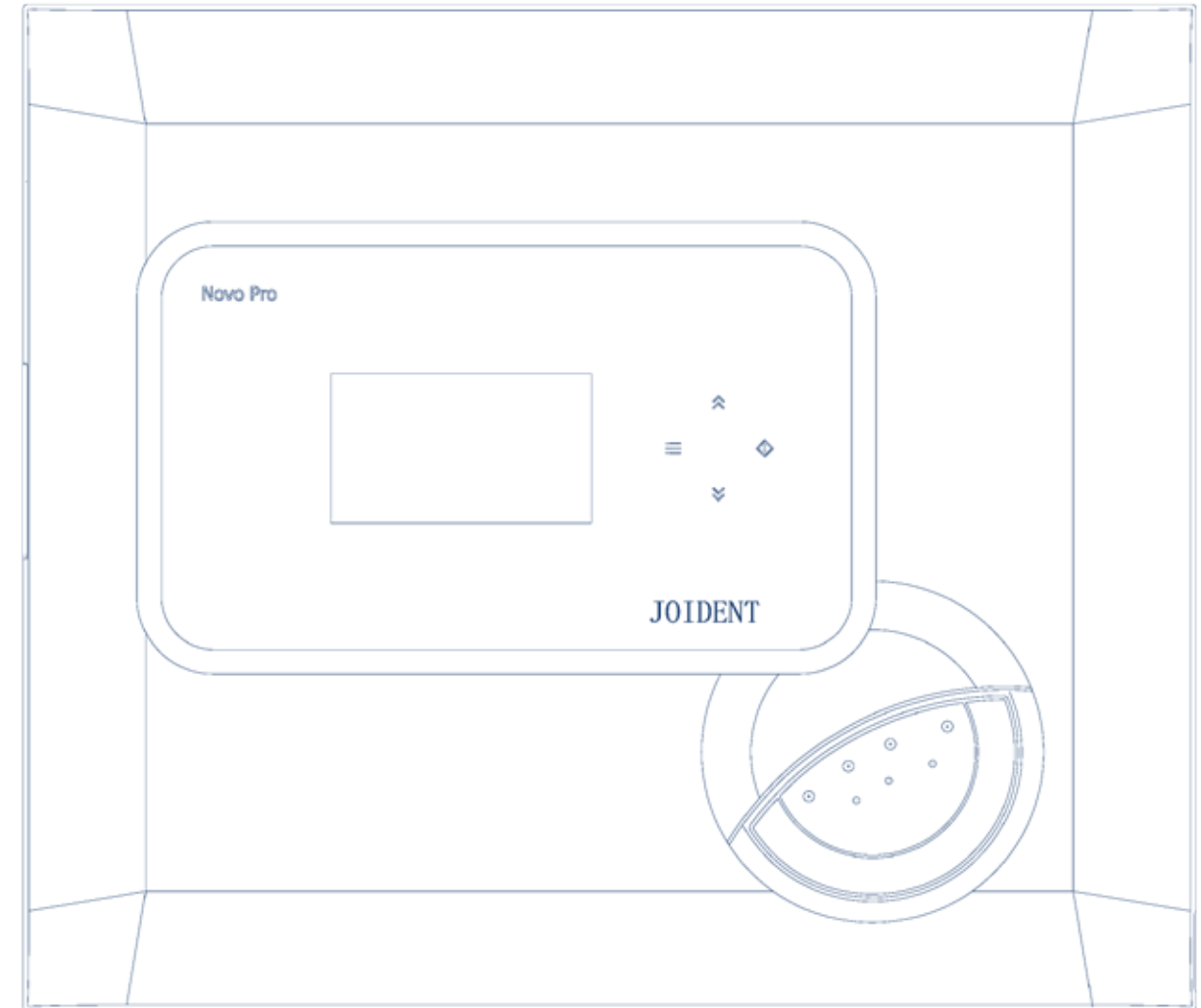
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1st issue,03/2018 JOIDENT reserves the right to make any changes required for the purposes of product improvement

Steam Sterilizer



Joident

Steam Sterilizer

Small steam sterilizer

Sterilizer [**Novo Pro**] is a best choice



Patent : ZL 2014 3 0040889.7

Product Description

HOW TO CHOOSE THE CORRECT STERILIZER?

The European Standard 13060 for small sterilizers describes the three methods of sterilization cycles: B, S and N. Steam sterilizer with B cycles must meet the most stringent requirements. They work with a fractionated pre-vacuum and their capacity can be compared to that of large hospital steam sterilizer. The medical practice operator stipulates in the risk analysis and specification of the preparation steps which method is applied to prepare the instruments used. In practices which do not use narrow-bore and simultaneously long hollow-bodied instruments, a "Class S" steam sterilizer can be the right alternative to the "Class B" steam sterilizer. "Class S" steam sterilizer do not operate with a fractionated vacuum, but with a simple pre- and post-vacuum. Steam sterilizer which only offer "Class N" cycles are not suited for sterilizing wrapped instruments.



N cycle

solid instruments that do not need to be placed in a pouch (e.g. mirrors, probes)



S cycle

B-type hollow instruments, both loose and placed in a pouch (e.g. handpieces, resistant thermoplastic items or ferrous material)



B cycle

solid instruments, A-type hollow instruments (e.g. aspirator tips, handpieces), B-type hollow instruments (e.g. glass, surgical cups), porous material, thermoplastic material, placed in a pouch or loose.

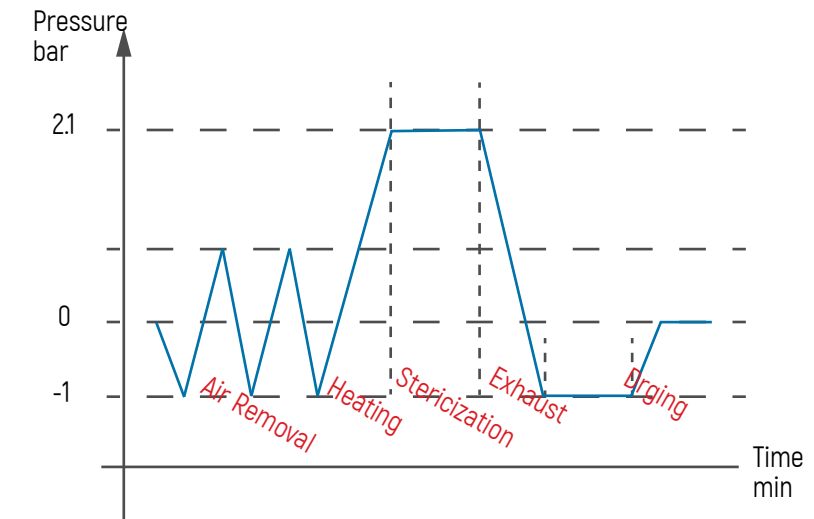


Novo Pro type B Steam Sterilizer

Advanced Performance

Class B performance

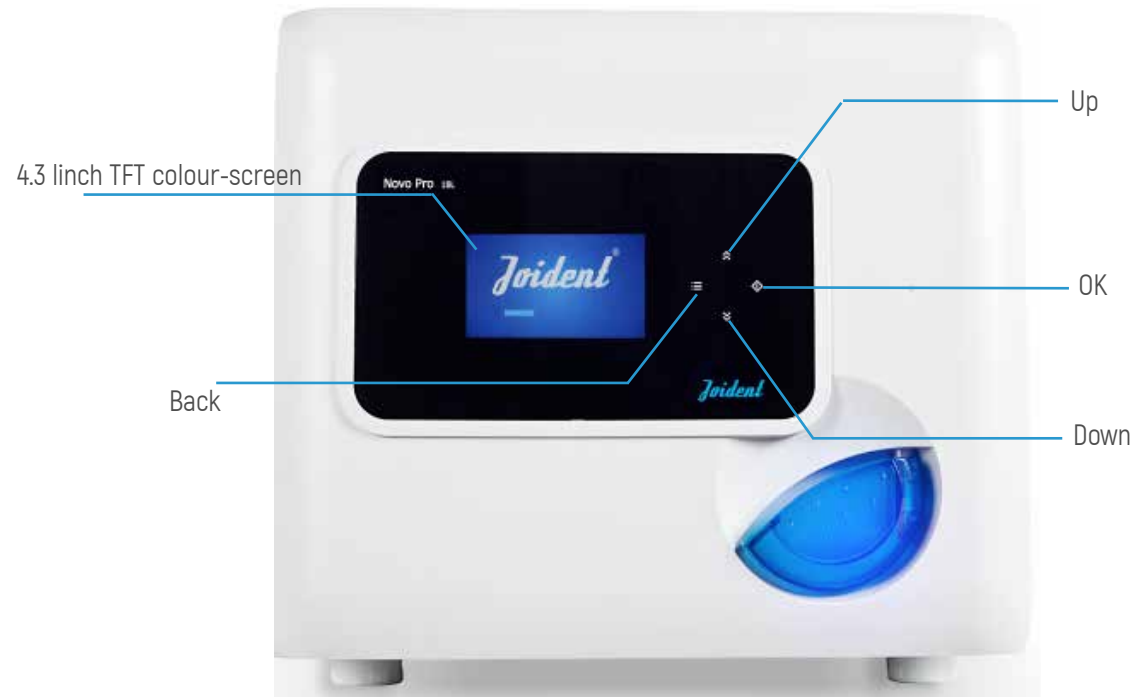
Class B performance is achieved with a built-in vacuum pump used for fractionated pre vacuum air removal eliminating air pockets from all load types and maximizing efficient steam penetration throughout the entire load.



Full automatically program

Program	Load type	Temp.(°C)	Cycle Type	Sterilization Time(min)	Dry time (min)
Solid load	Unwrapped instruments, Solid instruments	134	S	10	9
Quick	Emergency sterilization of unwrapped instrument, besides the fabric	134	S	4	4
Hollow bodies	Solid and hollow instrument, cotton fabric	134	B	5	18
Multiple wrapping	Cotton fabric, wrapped instruments, hollow instruments	134	B	18	18
Solid load	Solid instrument	121	S	30	9
Glass	Glass instruments	121	S	20	9
Hollow bodies	Low temperature fabric, wrapped instruments, mixed-packs	121	B	20	18
Tampon	prion	121	B	30	18

Precise Touch Operating System

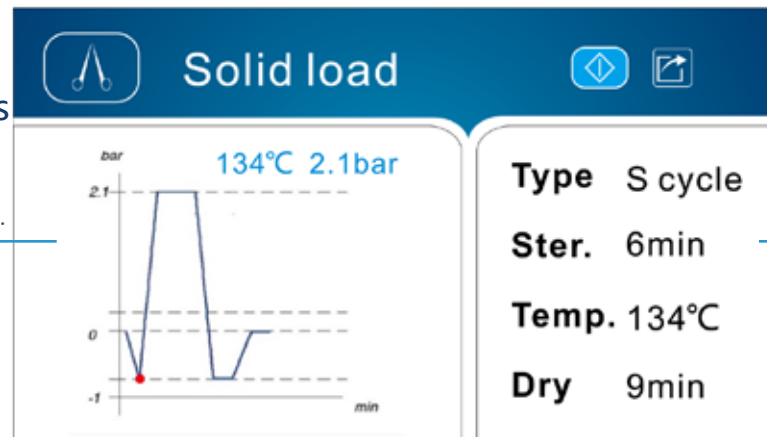


Multi-Fuctions System

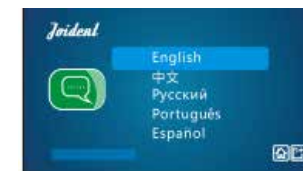
Only 3 steps, Automatically finish sterilization. Ⓞ



Real-time measured values
Shows real-time / Values for chamber temperature & pressure.



Cycle parameters
Parameter settings for temperature / Sterilization time and drying time settings.



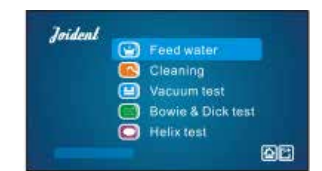
Multi-language



Unique Device ID



5 Additional Function & Test



Simplicity & Innovation & Practicality Operation Interface

Three Test Method



Vacuum Test:

Vacuum Test: verifies that the vacuum necessary for the autoclave to correctly carry out the sterilization process is reached and maintained.



Bowie & Dick test (or steam penetration test into porous bodies):

Bowie & Dick test (or steam penetration test into porous bodies): verifies steam penetration into porous bodies. It consists of a pack of porous material (paper) with a reactant inside that changes colour if reached by the sterilizing agent (steam), giving the test result. The pack must be positioned inside the empty sterilization chamber, in the centre of the heater. It makes it possible to understand if porous loads are being sterilized correctly.



Helix Test (or steam penetration test into hollow bodies):

Helix Test (or steam penetration test into hollow bodies): verifies steam penetration into hollow bodies. It consists of a small Teflon tube with a bulb at the end called "capsule" that contains a chemical agent. The instrument should be placed inside the empty sterilization chamber, in the centre of the heater. The chemical agent, if reached by the sterilizing agent (steam), changes colour, giving the test results.



Electric-Mechanical Dual Interlock

Newly designed door is easy to open and close with one hand. Safety locker with double safety locking mechanism. Cycle will not start if the door is open or not properly locked. Safety locking device prevents door from opening until chamber pressure reaches atmospheric pressure.



Mechanical Locker



Electric Switch



Pressure Locker



Water tank



Water tank
Water tank group completely accessible and inspection-able for a perfect and complete cleaning as per the maintenance program and safeguard of the device.

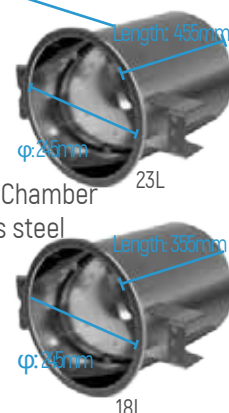


3.5 liters distilled water tank.

Moulded Chamber



Temperature Sensor, Filter in Chamber
Moulded chamber in stainless steel
(Medical 304)



18L

Trays/Holder /Cassette



B1 steel wire tray.

23L : 410*205*200 mm
18L : 310*205*200 mm



B2 steel wire holder

23L : 380*190*20 mm
18L : 285*190*20 mm



C1 Instruments ^{Optional} management assistant.

E.g: mirrors, probes etc.
Size: 205 X 140 X 32mm
Weight: 455g



C2 Instruments ^{Optional} management assistant.

E.g: mirrors, probes etc.
Size: 180 X 125 X 20mm
Weight: 340g

High-end Accessories



SD Function

Novo Pro Autoclave offers SD storage function, All sterilization records can be automatically saved in SD card, read and printing in PC.



Thermal paper printer ^{Optional}

Novo Pro Autoclave offers the possibility of recording sterilization process executed completely, and with thermal paper printer connector on the back of machine

High-end Accessories



The Quick Coupling System

The quick coupling system for water filling and draining on the front section of the sterilizer simplifies and speeds up the relevant tasks. And that's not all: it is also possible to equip the sterilizer with an automatic filling system that withdraws water from an external tank.



Air filter

0.2um accuracy,
More than 99.5% Dust removing



Safety Valve

Setting Pressure: 0.24MPa
Discharge Pressure: 0.247MPa
Nominal Pressure: 0.4MPa
Nominal Diameter: 10mm
Circulation Diameter: 6mm
Opening Height: 1.5mm
Applicable Medium: Steam
Applicable Temperature : ≤ 138 °C
Valve Material: HPbb59-1
Rated Discharge: S-0..4



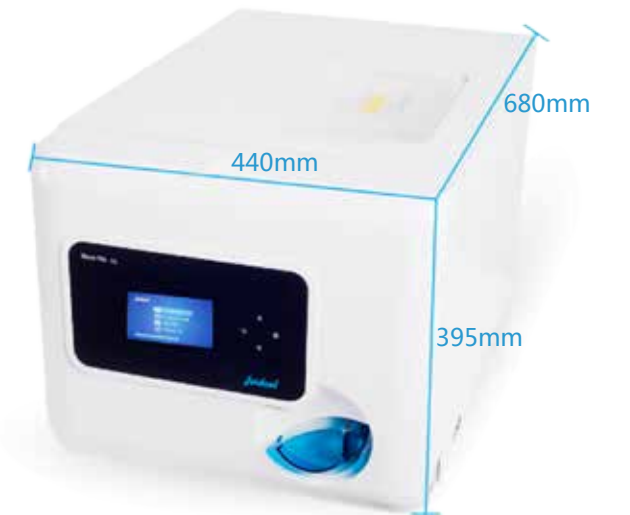
Cooling System

260×142mm Large cooling area, 73 layers heat radiating aluminum sheet, 18 radiation pipe, to ensure steam temperature can down to room temperature from 134°C in seconds.

Machine Size



18L



23L

Packing Box Size



18L



23L

Technical Specifications

Item Nr.	Novo Pro 23L Novo Pro 18L	Stainless Steel chamber	AISI 304
Electronic Control	Microprocessor	Temperature sensors in chamber	1
Programs	8	Vacuum pump	Dual head
Test method	3	Water pump	1 ULKA water pump
Cycle recording	YES	Tank sensor	1,Distilled water level sensor
(18L)Max Loading weight	3.07kg/cm2	(23L)Max Loading weight	3.21kg/cm2
Temperature	<145 °C	Available Volume	18L : 198 x 204 x 319mm 23L : 198 x 204 x 385mm
Working Pressure (Maximum)	250kPa(2.5 Bar)	Working Pressure (Minimum)	-90kPa(-0.9 Bar)
18LCycle Water Volume (Minimum)	0.15L	18LCycle Water Volume (Maximum)	0.26L
23LCycle Water Volume (Minimum)	0.17L	23LCycle Water Volume (Maximum)	0.31L
Safety feature	Electric-Mechanical dual interlock,Mechanical safety valve,alarms when door opened,Water level control,over heating control,over pressure protection,error messages viewed on the display		

Size Information

Model	Chamber volume	Device size D*W(mm)	Machine Size L*W*H(mm)	NO.of tray	Voltage(V) Freq.(Hz)	Power(W) Current(A)	Carton Size L*W*H(mm)
NOVO PRO	18L	φ245*355	575*440*395	1	220V	1700VA	710*575*550
				2	50HZ	T10A	
NOVO PRO	23L	φ245*455	680*440*395	1	220V	1700VA	775*630*500
				2	50HZ	T10A	



Joident's production base located at China Science and Technology Park

National high-tech enterprise
High quality production,ensured by through certification and approval standards,such as:

ISO13485 :2016Medical equipment quality management system

STERILIZER featuring type B sterilization cycles conform with the following standards:

93/42/CEE Medical Device Directive (MDD)

EN 13060 Small steam sterilizer

IEC 61010-1

IEC 61010-2-040

EN 61326