



OT SERIES

Bench Top Steam Sterilizers



N-smart



OT 18/23B – OT 23/32VS – OT 23S

BENCH TOP STEAM STERILIZERS

Small steam sterilizers are widely used for the sterilization of the products used for medical purposes, e.g in general medical practices, dentistry, facilities for personal hygiene and beauty care and also veterinary practices.

EN 13060, European Standard for small steam sterilizers, specifies the general requirements for small steam sterilizers and test methods for specified sterilizer loads. The sterilization of the loads are classified in three classes of cycles. B, N and S.

The vast experience of Nuve for the manufacturing of steam sterilizers created steam sterilizers which totally satisfy all requirements of EN 13060 for B and S type sterilization cycles with extra technical advantages : OT 18/23B – OT 23/32VS – OT 23S

STERILIZATION LOADS

Three different models for different sterilization loads:

OT 18B/23B: All wrapped or unwrapped, solid, hollow load products Type A and porous products.

OT 23VS/32VS: Unwrapped solid products, porous products, small porous items, hollow load products Type B, single wrapped products, multiple –layer wrapped products.

OT 23S: Unwrapped solid products and single wrapped products



VACUUM SYSTEM

OT 18B/23B – OT 23VS/32VS

- Maintenance free powerful vacuum pump
- Condensation of the steam by condenser to increase the efficiency of the vacuum pump
- Fractioned pre-vacuum system to eliminate air bubbles inside the material for successful steam penetration
- Perfect drying by means of post vacuum system

CHAMBER DESIGN

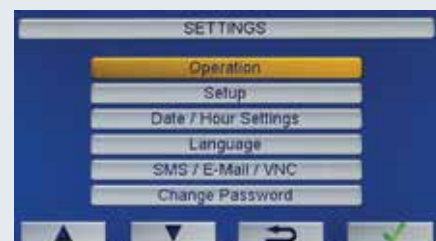
- Chamber made of stainless steel
- Seamless chamber for 18 and 23 liter models
- Reversible shelf carrier suitable for standard shelves and sterilization cassettes

RELIABLE AND POWERFUL CONTROL SYSTEM: N-Smart™.

- Maximum information with highly visible 4.3" colourful LCD display
- Four context-sensitive function keys for versatile & easy use
- Password protected menu to secure run parameters and data
- With 5 language options: Turkish, English, French, Russian, Spanish
- Icons to make the operations easier for immediate understanding

OT 23S

- No need for pre or post vacuum due to the type of sterilization loads
- Fractionated gravity system with alternating inflow and outflow for penetration of steam on the sterilization load and efficient drying



PROCESS EVALUATION AND SELF DIAGNOSTIC SYSTEM

- Compare the preset values with operating parameters using the process evaluation system
- When the operating parameters do not match the preset values, the sterilization cycle is cancelled and the user is warned
- Comprehensive self-diagnostic system for 19 possible failures such as power failure, heater failure, low water level, high pressure and temperature, sensor failure...

SAFETY OVER STANDARDS

- Password protected control system, service and calibration menu
- Lid safety system
- Colour of the display changes to red in case of any alarm condition along with an audible alarm
- Reminder for gasket and filter replacement
- Remote failure diagnostic by means of NüveCloser™ software
- Sending e-mails up to five e-mail addresses with the details of failure
- Optional AlerText™ SMS alarm system for ultimate security
- Safety valve against over pressure
- HEPA filter at air intake line
- Certified chamber according to PED 97/23
- Validation port as standard



PRINT OUT PREVIEW			
Phase	Pressure Bar	Temp. °C	Time M n.
Start	-0.10	43.4	00:00:00
1. Pre-Vacuum	-0.88	46.6	00:04:42
Steam Charge	0.20	94.3	00:07:34
2. Pre-Vacuum	-0.85	57.3	00:10:48
Steam Charge	0.20	103.6	00:13:21

SERVICE	
Calibration	
Parameters	
Update	
In / Out Situation	
Ethernet	
Factory Settings	

SMS / E-MAIL	
SMS	
E-Mail	
Reverse VNC	



EASY STERILIZATION

- Pre - set programs which guarantee safe sterilization of treated material

Universal	134 °C	4 minutes	B,VS,S
Quick, unwrapped	134 °C	4 minutes	B,VS,S
Sensitive material	121 °C	20 minutes	B,VS,S
Prion	134 °C	20 minutes	B,VS,S
Wrapped	134 °C	4 minutes	VS
Flash	134 °C	4 minutes	B

Two programmable free programs :

Temperature : 121 °C or 134 °C

Sterilization time: 1 - 20 minutes

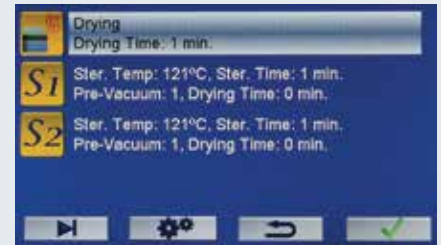
No. of pre vacuum : 1 - 4 B,VS models

Drying time : 0 - 30 minutes B,VS models

No. of pre puls: 2 - 6 S models

Drying program with programmable time 1 - 30 min.

Pre - heating

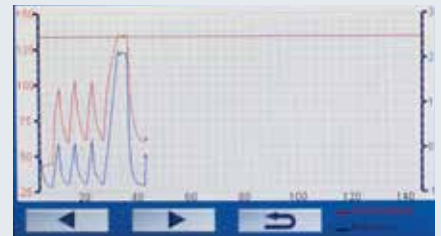


TEST PROGRAMS

- Vacuum leakage test and Bowie & Dick/Helix test programs for OT 18B/23B
- Vacuum leakage test and Bowie & Dick test programs for OT 23VS/32VS

FULL TRACEABILITY AND REMOTE ACCESS

- Operating parameters can be tracked graphically against time
- Massive data storage with internal memory which stores the records of last 500 cycles detailed and 29.500 cycles as summary
- Memory for the last 100 failures
- USB port to record the operated cycles in the memory to a memory stick
- PC connection through USB / RS 232 port
- Ethernet port for remote access through internet by means of optional NüveCloser™ software
- NüveCloser™ allows to access operating parameters, memory, failure history and other technical parameters
- Optional panel type printer to keep the records of the sterilization cycle



OLDER CYCLES				
NO	DATE	TIME	PROGRAM	ERROR
00001	26.09.15	11:25	Vacuum Test	✓ ---
00002	22.09.15	12:16	Bowie & Dick/Helix	✓ ---
00003	22.09.15	09:51	Sensitive	✓ ---
00004	22.09.15	09:11	Vacuum Test	✓ ---
00005	21.09.15	16:26	Prion	✓ ---



TECHNICAL SPECIFICATIONS

	OT 18B	OT 23B	OT 23VS	OT 32VS	OT 23S
Chamber Volume, litres	18	23	23	32	23
Sterilization Temperature	121°C and 134°C				
No of Preset Programs	5				4
No of Free Programs	2				
Test Programs	Vacuum leakage, Bowie & Dick/Helix		Vacuum Leakage, Bowie & Dick		N/A
Minimum Vacuum Level	100 mbar		300 mbar		N/A
Control System	N-Smart™ Control System				
Display	4,3" Colourful LCD Display				
Chamber Material	Stainless Steel				
No of Shelves (Standard/Max.) pcs	3/6			3/8	3/6
Capacity For Sterilization Cassettes, pcs	3				
Power Supply	220 V 50/60 Hz.				
Power Consumption	2.500 W			3.000 W	2.500 W
Chamber Dimensions (Diameter x Depth) mm.	Ø 260x350	Ø 260x420		Ø 320x415	Ø 260x 420
External Dimensions (WxDxH) mm.	570x630x525	570x730x525		625x710x575	570x730x525
Packing Dimensions (WxDxH) mm.	770x630x690			740X680X750	770x630x690
Net / Packed Weight kg.	50 / 64	55 / 69		65 / 82	52 / 66

FACTORY FITTED OPTIONS

OT XXXY Panel mounted thermal printer

ACCESSORIES

- A 08 191 AlerText™ GSM alarm module
- A 08 212 NuveCloser™ Software CD with 3 m. RS 232 cable
- R 01 122 Aluminum shelf for OT 18B
- R 01 123 Aluminum shelf for OT 23B/VS/S
- R 01 125 Aluminum shelf for OT 32VS
- A 08 083 Sealed sterilization pack carrier OT 18B
- A 08 092 Sealed sterilization pack carrier OT 23B/VS/S
- A 08 112 Sealed sterilization pack carrier OT 32VS



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