



# NC SERIES

## Bench Top Steam Sterilizers



**N-smart**



# NC 23B - NC 23S/32S

## 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 : NC 23B - NC 23/32S*

### STERILIZATION LOADS

Three different models for different sterilization loads:

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

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



## VACUUM SYSTEM

- 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 23 and 32 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



## EASY STERILIZATION

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

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

Two programmable free programs :

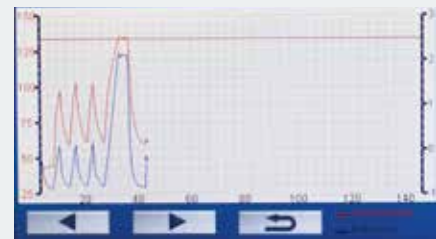
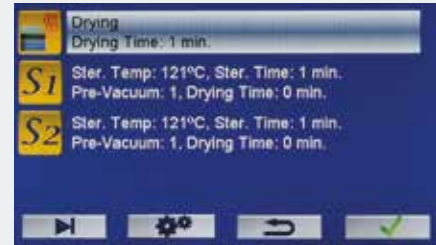
Temperature :	121 °C or 134 °C	
Sterilization time:	1 - 20 minutes	
No. of pre vacuum :	1 - 4	B,S models
Drying time :	0 - 30 minutes	B,S models
Drying program with programmable time	1 - 30 min.	
Pre - heating		

## TEST PROGRAMS

- Vacuum leakage test and Bowie & Dick/Helix test programs for NC 23B
- Vacuum leakage test and Bowie & Dick test programs for NC 23S/32S

## 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	PROGRAM	ERROR	
00001	28.09.15 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	✓	---



## 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
- Chamber manufactured according to PED 2014/68 EC
- Validation port as standard



PRINT OUT PREVIEW			
Phase	Pressure	Temp.	Time
	Bar	°C	Min.
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



## TECHNICAL SPECIFICATIONS

	NC 23B	NC 23S	NC 32S
Chamber Volume, litres	23	23	32
Sterilization Temperature	121°C and 134°C		
No of Preset Programs	5		
No of Free Programs	2		
Test Programs	Vacuum Leakage, Bowie & Dick/Helix	Vacuum Leakage, Bowie & Dick	
Minimum Vacuum Level	100 mbar	300 mbar	
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	
Capacity For Sterilization Cassettes, pcs	3		
Power Supply	220 V 50/60 Hz.		
Power Consumption	2.500 W	3.000 W	
Chamber Dimensions (Diameter x Depth) mm.	Ø 260x420	Ø 320x415	
External Dimensions ( WxDxH ) mm.	570x730x525	625x710x575	
Packing Dimensions ( WxDxH ) mm.	770x630x690	740X680X750	
Net / Packed Weight kg.	55 / 69	65 / 82	

### FACTORY FITTED OPTIONS

NC 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 01 123 Aluminum shelf for NC 23B/S  
R 01 125 Aluminum shelf for NC 32S  
A 08 092 Sealed sterilization pack carrier NC 23B/S  
A 08 112 Sealed sterilization pack carrier NC 32S



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ISO 9001: 2008  
ISO 13485: 2012

