



# NC SERIES

## Bench Top Steam Sterilizers



**N-smart**



# NC 23B - NC 32S

## BENCH TOP STEAM STERILIZERS

*NC 23B / NC 32S Model Benchtop Steam Sterilizers are carefully designed for all kinds of general medical applications, dentistry, personal hygiene, beauty salons, veterinary applications and sterilization applications in hospitals and clinics.*

### STERILIZATION LOADS

They are designed to sterilize different types of loads as 2 different models and can meet these different needs.

NC 23B: Ensures safe sterilization of all wrapped, un-wrapped, solid, type A\* hollow loads and porous (textile) materials.

NC 32S: Ensures safe sterilization of Non-wrapped solid products, porous products, small porous materials, type B\* hollow loads, single wrapped products and multiple-layer wrapped products.



## VACUUM SYSTEM

- Maintenance-free powerful vacuum pump • Condenser that increases the efficiency of the vacuum pump by condensing the discharged steam • 4-step pre-vacuum system that eliminates air gaps and ensures full penetration of steam into the materials to be sterilized
- Full drying with the final vacuum applied after sterilization

## CHAMBER DESIGN

- Stainless steel chamber
- Seamless single piece chamber for 23 liter model • Possibility to use standard shelves or sterilization cassettes with a rotatable rack slide placed in the cell

## POWERFUL AND RELIABLE CONTROL SYSTEM: N-Smart™

- High resolution 4.3" video graphics from color LCD screen:  
Sterilization chamber temperature and pressure, jacket temperature, sterilization chamber "chamber air detector" temperature, name of the active program, stage of the program, total and phase times of the active program, graph of sterilization cell temperature and pressure values, current date and time, door locations, possibility to monitor alarm conditions
- Four function keys are versatile and easy to use
- Work and data secured by a 4-digit password-protected menu
- Icons that make operations easier
- 5 languages: Turkish, English, French, Spanish, Russian



## EASY STERILIZATION

- 5 pre-set programs that provide safe sterilization for the materials to be sterilized

Universal	134°C	4 minutes	(NC 23B / NC 32S)
Quick, unpacked	134°C	4 minutes	(NC 23B / NC 32S)
Sensitive material	121°C	for 20 minutes	(NC 23B / NC 32S)
Flash	134°C	4 minutes	(NC 23B)

*(Used in special applications where requirements are met)*

Packed	134°C	4 mins	(NC 32S)
Prion	134°C	20 min	(NC 23B)
Prion	134°C	18 min	(NC 32S)

- 2 free programs provided with programmable password entry:

Temperature: 121°C and 134°C

Sterilization time: 1-20 minutes

Number of pre-vacuum repetitions: 1-4

Drying time: 0-30 minutes

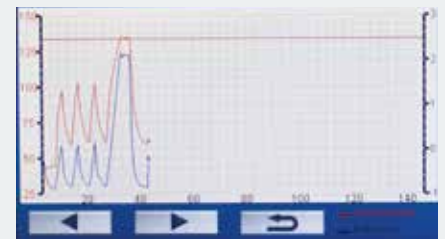
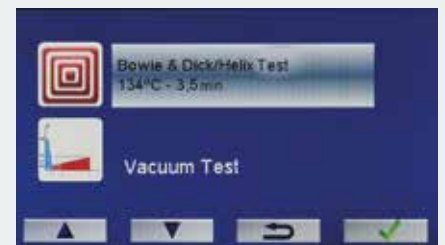
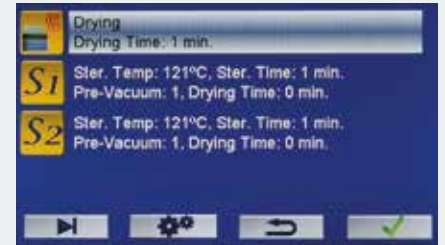
- Programmable drying program between 1-30 minutes
- Preheating feature
- Stand-by system that can be adjusted after the sterilization process is completed

## TEST PROGRAMS

- Vacuum leakage and Bowie&Dick/Helix test programs for NC 23B
- Vacuum leakage and Bowie&Dick test programs for NC 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 in detail and 29.500 cycles as summary.
- Memory for the last 100 failures.
- Software update via USB port
- USB port to record the operated cycles in the memory to a memory stick.
- Possibility to transfer the cycles in the memory to the computer via USB or RS 232 port
- Ethernet port for remote access through internet by means of optional NuveCloser™ software.



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	✓	---





- In order to print and store sterilization cycle, date-time, name of the active program, pre-vacuum time and stage number, preheating temperature, sterilization chamber temperature, sterilization chamber pressure, sterilization time, drying time, error messages that may occur in the system, date, time and total time at the end of the sterilization process information are displayed at the end of the process
- Standard Wi-Fi connection for the N-Mobile™ phone app

## PROCESS EVALUATION AND FAULT DETECTION SYSTEM

- Process evaluation system
- Advanced fault detection system in case of power failure, heater failure, low water level, high temperature and pressure, sensor failures etc.

## SAFETY OVER STANDARDS

- Sterilization meeting the requirements of the European Standard for Desktop Sterilizers EN 13060
- 4-digit password-protected operation, service, and calibration menus
- Electromechanical cover safety system
  - The lid cannot be opened when the cell is under pressure.
  - The program cannot be run when the lid is open.
- Screen that turns red in case of any alarm and warns the user with the audible alarm
- Reminder for the time of gasket and filter replacement
- Remote diagnostics with optional NüveCloser™ software
- Sending e-mails up to five e-mail addresses with the details of failure.
- Optional AlerText™ GSM alarm module, text messages can be sent to 5 different phone numbers in case of errors and malfunctions
- Safety valve against overpressure
- Hepa filter at air intake line
- Pressure vessels directive 2014 / 68 / EU approved cell
- Accredited Institution approved CE marking according to Medical Device Directive 93/42/EC
- Standard validation port



PRINT OUT PREVIEW			
Phase	Pressure	Temp.	Time
	Bar	°C	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



## TECHNICAL SPECIFICATIONS

	NC 23B	NC 32S
Chamber Volume, litres	23	30
Sterilization Temperature	121°C and 134°C	
No of Preset Programs	5	
No of Free Programs	2 Free programs + 1 Drying Program	
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
Power Supply	2500 W	3000 W
Power Rating	230 V - 50 Hz	
Chamber Dimensions (Diameter x Depth) mm	Ø 260x440	Ø 320x400
External Dimensions ( WxDxH ) mm	573x743x523	634x715x575
Packing Dimensions ( WxDxH ) mm	630x770x720	680x720x780
Net/Packed Weight, kg	64 / 78	74 / 91

### FACTORY FITTED OPTIONS

NC XXX Y Panel type thermal printer

### OPTIONS

A 08 191 AlexText™ GSM alarm module

A 08 237 NuveCloser™ Software

### ACCESSORIES

A 08 104 Printer paper (20 pieces)

F 06 048 HEPA filter

R 01 123 Aluminium shelf for NC 23B

R 01 125 Aluminium shelf for NC 32S



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ISO 45001: 2018