



NC 40M / 90M

Laboratory Type Steam Sterilizers



N-smart

NC 40M/90M

LABORATORY TYPE STEAM STERILIZERS

NC 40M / NC 90M Vertical Type Laboratory Steam Sterilizers; It has been developed for use in research laboratories of research centers and universities, pharmaceutical, food, medical and biotechnology industries.

NC 40M / NC 90M is specifically designed for use in the sterilization of media, liquid, and culture media. In addition, it is also suitable for sterilization of metal, glass, ceramic, plastic, unpackaged and non-porous solid materials resistant to high temperature and high vapor pressure.

THE IDEAL DESIGN FOR STERILIZATION

- Since the time it takes for liquids to reach the sterilization temperature is longer than for solid materials, an external temperature sensor is used to measure the actual temperature of the liquids, and process accuracy is guaranteed by starting sterilization when the liquid temperature reaches the set temperature
- With the fan cooling system that shortens the cooling time of the liquids, the chamber is cooled, and the liquid is prevented from overflowing by rapidly reducing the temperature of the liquids, while the processing time is shortened

PROTECTION FOR SENSITIVE MATERIALS

- Fractionated exhaust system with 0-10 user-programmable for the protection of glass and similar sensitive materials





POWERFUL AND RELIABLE CONTROL SYSTEM: N-Smart™

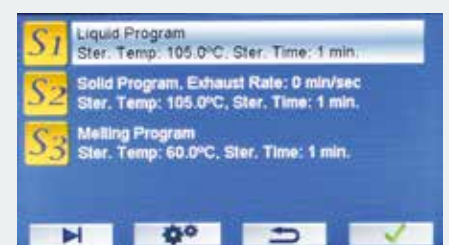
- High resolution 4.3" video graphic color TFT LCD screen with sterilization chamber temperature, jacket temperature, flexible sensor temperature, name of the active program, program stage, total phase times of the active program, sterilization chamber temperature graph, door locations, alarm states traceability
- 4-digit passcode to prevent unauthorized access to the menu
- 5 Language options: Turkish, English, French, Spanish, Russian
- Help page with explanations of errors and malfunctions that occur in the device

EASY STERILIZATION

- Providing safe sterilization for materials to be sterilized
5 ready-made programs:

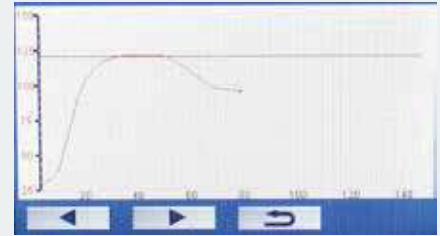
Liquid	121°C	for 15 minutes
Liquid	121°C	for 20 minutes
Solid	121°C	for 20 minutes
Solid	134°C	for 20 minutes
Solid	134°C	for 4 min

- 3 special programs as 1 liquid, 1 solid and 1 melting that can be changed by the user in the device
- Temperature adjustment for solids and liquids at 105-135°C and programmable sterilization time of 01-300 minutes
- 60-100°C melting temperature adjustment and programmable 01-60 minutes melting time
- Fast sterilization cycle thanks to preheating adjustable between 40-60°C
- Time savings provided by automatic start that can be programmed with real date and time
- Stand-by system that can be adjusted after the sterilization process is completed



FULL TRACEABILITY AND REMOTE ACCESS

- Possibility to follow temperature data on graph
- 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
- USB port to record the operated cycles in the memory to a memory stick
- Software update via USB port
- Remote access to operating parameters, data in memory, error history, temperature values and other technical data with Ethernet port and optional NüveCloser™ software
- Informing 5 different people by sending an e-mail in case of all failures with the Ethernet port
- Documentation of the sterilization cycle including user signature chamber, date-time, name of the active program, stage information, preheating temperature, sample temperature for liquid program, sterilization chamber temperature for solid program, sterilization time, error messages that may occur in the system, date time and total time information at the end of the sterilization process with optional panel type thermal printer
- Standard Wi-Fi connection for the N-Mobile™ phone app



OLDER CYCLES				
NO	DATE	TIME	PROGRAM	ERROR
00001	02.10.15	15:33	Liquid P1	✓ ---
00002	02.10.15	10:50	Solid P4	✓ ---
00003	01.10.15	15:01	Solid P4	✓ ---
00004	01.10.15	14:03	Solid P4	✓ ---
00005	01.10.15	11:44	Solid P4	✓ ---

ERROR RECORDS		
NO	DATE	ERROR
00001	01.10.15	11:37 POWER FAILURE
00002	30.09.15	09:50 HIGH PRESSURE
00003	30.09.15	09:10 HIGH PRESSURE
00004	29.09.15	14:17 HIGH PRESSURE
00005	29.09.15	13:55 NO WATER

MEMORY	
All Cycles	✓
Error Records	✓
Memory Stick Records	✓
Cycle Info	✓

PRINT OUT PREVIEW		
Program: Liquid P1		
Preheating: 123.0°C		

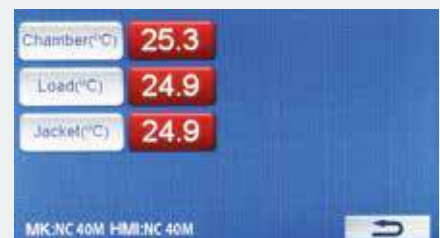
Phase	Temp. °C	Time Min.
Start	27.0	00:00:00
Heating	90.0	00:14:11

CYCLE INFO	
EMPTY CYCLE	2
TOTAL CYCLE	340
GASKET CYCLE LEFT	485



SAFETY ABOVE STANDARDS

- 4-digit password-protected operation, service and calibration menus
- Electromechanical cover safety system
- Lid that does not open when the chamber is under pressure
- Programs that cannot be started when the lid is open
- Lid that does not open at the end of liquid sterilization before the liquid temperature drops below 80°C
- Lid that does not open at the end of solid sterilization before the chamber temperature drops below 95°C
- With a comprehensive diagnostic and warning system that warns the user in the following situations:
 - Temperature sensor failure
 - Heater failure
 - When there is no water left
 - Low temperature - high temperature - high preheating temperature
 - Exhaust tank failure - high pressure - door open fault
- Screen that turns red in case of any alarm and warns the user with the audible alarm
- Ability to send e-mails to 5 different addresses in case of errors and malfunctions
- Thanks to the 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
- Automatic reminder for gasket change
- Safety system against high temperature
- Manometer showing chamber pressure (0-4 bar)
- Accredited institution approved CE marking according to MDD 93/42/EC medical device directive
- Production in accordance with PED 2014/68 EU pressure vessels directive
- Standard validation port



TECHNICAL SPECIFICATIONS

	NC 40M	NC 90M
Chamber Volume (litres)	42	96
Temperature Range (in special programs)	105°C to 135°C	
Control System	Programmable microprocessor N-Smart™ control system	
Display	4.3" color LCD display	
Preset Programs	2 pcs liquid, 3 pcs solids	
Free Programs	1 piece liquid, 1 piece solid, Melting Program	
Melting Program Temperature Range	60°C- 100°C	
Timer for Free Programs	1-300 minutes	
Timer for Melting Program	1-60 minutes	
Delayed Start Timer	Programmable with actual date and time	
Chamber Material	316L stainless steel	
Standard Number of Baskets	2 pcs (Ø295x242 mm)	3 pcs (Ø 360x242 mm)
Power Rating	2500 W	7000 W
Power Supply	230 V - 50 Hz	400VAC, 50 Hz
Chamber Dimensions (Diameter x Height) mm	Ø 320x520	Ø 396x806
External Dimensions (WxDxH) mm	544x565x990	670x620x1055
Packing Dimensions (WxDxH) mm	570x660x1200	730x760x1200
Net / Packed Weight, kg	86 / 97	119 / 140

NC 40M LOADING CAPACITY	ERLENMEYER		SCHOTT-DURAN	
BASKET	VOLUME	CAPACITY	VOLUME	CAPACITY
S 09 040 (Ø295 x 160)mm*	250 ml	3 x 8 pcs	250 ml	3 x 12 pcs
H 09 027 (Ø295 x 242)mm	500 ml	2 x 4 pcs	500 ml	2 x 8 pcs
H 09 027 (Ø295 x 242)mm	1000 ml	2 x 3 pcs	1000 ml	2 x 5 pcs
S 09 028 (Ø295 x 345)mm*	2000 ml	1 pcs	2000 ml	1 pcs
S 09 028 (Ø295 x 345)mm*	3000 ml	1 pcs	3000 ml	1 pcs
S 09 028 (Ø295 x 345)mm*	5000 ml	1 pcs	5000 ml	1 pcs

NC 90M LOADING CAPACITY	ERLENMEYER		SCHOTT-DURAN	
BASKET	VOLUME	CAPACITY	VOLUME	CAPACITY
S 09 041 (Ø360 x 160)mm*	250 ml	4 x 12 pcs	250 ml	4 x 18 pcs
S 09 035 (Ø360 x 242)mm	500 ml	3 x 7 pcs	500 ml	3 x 11 pcs
S 09 035 (Ø360 x 242)mm	1000 ml	3 x 4 pcs	1000 ml	3 x 8 pcs
S 09 034 (Ø360 x 360)mm*	2000 ml	2 x 3 pcs	2000 ml	2 x 4 pcs
S 09 034 (Ø360 x 360)mm*	3000 ml	2 x 1 pcs	5000 ml	2 x 1 pcs
S 09 035 (Ø360 x 242)mm	5000 ml	1 pcs	10000 ml	1 pcs

NC 40M ACCESSORIES

S 09 027	Perforated sterilization basket (Ø295x242 mm)
S 09 028	Perforated sterilization basket (Ø295x345 mm)
S 09 029	Non-perforated sterilization basket (Ø295x345 mm)
S 09 030	Sterilization basket without holes (Ø295x232 mm)
S 09 040	Perforated sterilization basket (Ø295x160 mm)
H 22 004	Separator between baskets

FACTORY FITTED OPTIONS

NC XXX Y	Panel type thermal printer
NC 90ME	Nuvelift™ to load/unload basket for NC 90M

NC 90M ACCESSORIES

S 09 034	Perforated sterilization basket (Ø360x360 mm)
S 09 035	Perforated sterilization basket (Ø360x242 mm)
S 09 036	Non-perforated sterilization basket (Ø360x360 mm)
S 09 037	Non-perforated sterilization basket (Ø360x232 mm)
S 09 041	Perforated sterilization basket (Ø360x160 mm)

OPTIONAL REQUESTS

A 08 104	Printer paper (20 pieces)
A 08 191	AlerText™ GSM alarm module (Sim card not included)



NUVE SANAYİ MALZEMELERİ İMALAT VE TİCARET A.Ş.

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ISO 9001: 2015
ISO 13485: 2016
ISO 45001: 2018

