



# BS 30

## Refrigerated Water Bath



**N-s<sub>mart</sub>art**

*Equipped with N-Smart™ control system, BS 30 Refrigerated Water Bath is designed for bacterial and cell culture, coagulation tests, coliform determination, enzyme reactions, research and many different applications in industrial laboratories.*

*With the optional external circulation system, the temperature of another system other than the water bath can be controlled.*

## BODY DESIGN

- Epoxy-polyester powder coated stainless steel housing
- Easy to clean stainless steel tank
- Excellent temperature distribution and stability thanks to the powerful circulation system even at low temperatures

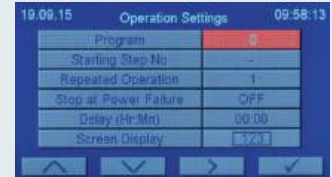


## EFFICIENT INSULATION AND COOLING

- High density injected polyurethane insulation against outdoor temperature fluctuations
- Proportional cooling and PID heating system

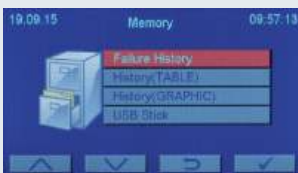
## POWERFUL AND RELIABLE CONTROL SYSTEM: N-Smart™

- Powerful and reliable N-Smart™ microprocessor control system.
- Maximum information with highly visible 4,3" colourful LCD display.
- Four function keys are versatile and easy to use
- Operation secured by a 4-digit password protected menu
- Standard 5 language options
- Full traceability thanks to graphical and numerical storage of temperature data
- Screen that warns the user by turning red in case of any alarm
- Diagnostic system that simplifies servicing
- Help menu explaining the causes and solutions of errors that may occur
- Energy-saving screen saver by reducing screen brightness (1-300 min.)
- Internal memory that can store the records digitally and graphically for up to ten years
- Alarm and error history kept in memory to facilitate service operations
- Password-protected service menu for software updates, calibration and technical parameter settings
- On-screen tracking of data for the last 50 errors on the device



10.09.15 10.09.2015 -1- 09:56:43

Time	Temperature	Time	Temperature
00:00	0.1	01:00	0.1
02:00	0.0	03:00	0.1
04:00	0.1	05:00	0.1
06:00	0.0	07:00	0.0



10.09.15 Failure History 1 09:57:45

Failure Name	Date	Time
Err0	18.09.2015	18:05:41
Err5	18.09.2015	17:57:29
Err5	18.09.2015	17:23:41
Err5	18.09.2015	17:23:38
Err6	18.09.2015	17:23:35



## COMPLETE TRACEABILITY AND SECURITY WITH OPTIONAL N-SMART™ COMMUNICATION UNIT

- Possibility to save working data to external memory via USB port
- Ability to select the recording intervals 10, 30 seconds, 1, 5, 30 and 60 minutes
- Ethernet port for Internet connection
- Access all data in memory by providing remote access to the device over the internet with optional NüveCloser™ software
- Ability to send e-mails to 5 different addresses with detailed information in case of errors and malfunctions with Ethernet output
- Thanks to the optional AlerText™ GSM alarm module, in case of error and malfunction, it can provide fast intervention by sending text messages to 5 different phone numbers
- Optional Wi-Fi connection for the N-Mobile™ phone app





## TECHNICAL SPECIFICATIONS

	<b>BS 30</b>
Tank Volume, liters	29
Useful Volume, liters	17
Useful Water Height	170 mm
Circulation Pump Capacity	16 lt / min
Temperature Operating Adjustment Range	0°C / 80°C
Temperature Sensor	Pt-100
Control System	N-Smart™ control system with programmable PID microprocessor
Indicator	4,3" Colourful LCD Display
Temperature Adjustment and Reading Sensitivity	0,1°C
Temperature Distribution at (+37°C)	± 0.1°C*
Temperature Fluctuation at +37°C)	± 0.1°C*
Programmable Alarm Limits	± 1°C / 10°C
Program Memory	20
Programmable Number of Steps	20
Program Repetitions	1-99
Timer	1 minute - 100 hours / indefinitely
Delayed Start Timer	1 minute - 100 hours
Alarm	Audio and visual
Insulation	High density injected polyurethane
Internal Material	Stainless steel
External Material	Epoxy-polyester powder coated stainless steel
Power Rating	2000 W
Power Supply	230 V - 50 Hz
Tank Dimensions (WxDxH) mm	300x505x195
External Dimensions (WxDxH) mm	340x630x608
Package Dimensions (WxDxH) mm	430x690x680
Net / Package Weight (kg)	37 / 43

\* At 22°C ambient temperature with closed lid

### FACTORY FITTED OPTIONS

BS 30WF	Wi-Fi connection for N-Mobile™
BS 30S	External circulation system

### OPTIONS

A 08 190	NuveCom™ communication Unit
A 08 191	AlerText™ GSM alarm module (should be ordered with A 08 190)
A 08 195	NüveCloser™ Software for (should be ordered with A 08 190)
A 08 231	NüveCloser™ Multi Software connection up to 15 devices (should be ordered with A 08 190)

### ACCESSORIES

K 04 289	Plexiglass lid (Resists up to 60°C)
K 52 019	Stainless steel lid
K 52 005	Lid with 4 holes (Hole dia. 95 mm)
K 52 006	Lid with 6 holes (Hole dia. 95 mm)
K 52 014	Lid with 8 holes (Hole dia. 95 mm)
A 08 051	Tube rack 52xØ 13 mm, wide 70 mm
A 08 050	Tube rack 30xØ 16 mm, wide 70 mm
A 08 021	Tube rack 27xØ 18 mm, wide 70 mm
A 08 049	Tube rack 12xØ 30 mm, wide 70 mm
O 03 240	Shelf for 12x100 ml flasks
O 03 239	Shelf for 6x250 ml flasks
O 03 237	Shelf for 4x500 ml flasks
O 03 238	Shelf for 2x1000 ml flasks



**NUVE SANAYİ MALZEMELERİ İMALAT VE TİCARET A.Ş.**

Saracalar Mah. Saracalar Kümeevleri No: 4/2 Akyurt 06750 ANKARA / TÜRKİYE t. +90 312 399 28 30 f. +90 312 399 21 97  
nuve.com.tr sales@nuve.com.tr

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

