

NC 40M / 90M

Laboratory Steam Sterilizers





N-s22art



NC 40M / NC 90M laboratory steam sterilizers are specially designed for the steam sterilization of liquid and culture media and also convenient for the sterilization of any labware such as glass and plastics and unpacked solid materials in the laboratories of hospitals, universities and pharmaceutical, food, beverage, dairy and biotechnology industries.

STANDARD FEATURES FOR LIQUID STERILIZATION

- Flexible temperature sensor to measure the temperature of the liquid load directly as the time required to reach the sterilization temperature of liquid is longer compared to solid loads.
- Cooling function with ambient air ventilation over the chamber that decreases the cooling time of liquid loads to the one third of time spent by conventional systems.
- Condensation of steam at the end of the cycle by means of air ventilated cooling system to prevent a sudden drop in the chamber pressure which causes re-boiling.

WELL PRESERVED SENSITIVE MATERIALS

- Second temperature sensor active for solid load sterilization.
- Controlled steam discharge by fractionated exhaust.
- Programmable exhaust rate against sudden temperature and pressure drop to preserve sensitive materials such as glass.







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

• Five pre-set programs which guarantee safe sterilization of the treated material.

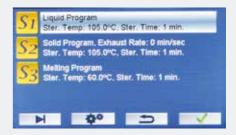
Liquid	121°C	15 minutes
Liquid	121°C	20 minutes
Solid	121°C	20 minutes
Solid	134°C	20 minutes
Solid Quick	134°C	4 minutes

- Two free programs for liquid and solid and a special program for melting purposes which the user can program easily.
- Delayed start function with real time which allows the users to get their samples sterilized on time as they arrive to the laboratory.
- Programmable pre-heating.



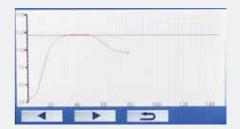






FULL TRACEABILITY AND REMOTE ACCESS

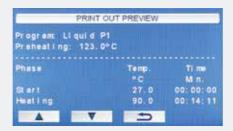
- Operating parameters can be tracked graphically against time
- Massive data storage with internal memory which stores the records of last 500 cycles detailed and 29.500 cycles as summary
- Memory for the last 100 failures
- USB port to record the operated cycles in the memory to a memory stick
- Possibility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

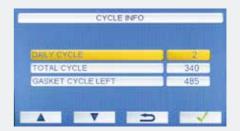














SAFETY OVER STANDARDS

- Password protected control system, service and calibration menu
- · Lid safety system
- Lid cannot be opened when the chamber is pressurized
- Program cannot be operated if the lid is open
- Lid can be opened when the liquid temperature is below 80°C after liquid sterilization
- Lid can be opened when the chamber temperature is below 90°C after solid sterilization
- Comprehensive self-diagnostic system to provide the information regarding possible system malfunction. The self-diagnostic system warns user in case of:
- Broken temperature sensors
- Over temperature
- Heater failure
- Low temperature
- Overpressure
- Exhaust tank failure
- Lack of water
- High preheating temperature
- Colour of the display changes to red in case of any alarm condition along with an audible alarm
- 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
- Manometer to follow the chamber pressure
- Chamber manufactured according to PED 2014/68 EC
- Validation port as standard











	NC 40M	NC 90M
Chamber Volume	40 litres	90 litres
Temperature Range	105°C	- 135℃
Control System	N-Smart™ Co	ontrol System
Display	4,3" Colourfu	ıl LCD Display
No of Preset Programs	2 For Liquids	s, 3 For Solids
No of Free Programs	1 For Liquids	s, 1 For Solids
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	n Real Date and Time
Chamber Material	Stainle	ss Steel
No. of Baskets	2 pcs. (Ø 295x242 mm)	3 pcs. (Ø 360x242 mm)
Power Consumption	2.500 W	7.000 W
Power Supply	220 V 50/60 Hz.	400 V 50/60 Hz., 3 phases+N+G
Chamber Dimensions (Diameter x Depth) mm	Ø 320x520	Ø 396x750
External Dimensions (WxDxH) mm.	560x600x985	680x660x1050
Packing Dimensions (WxDxH) mm.	570x660x1200	730x760x1200
Net / Packed Weight kg.	80 / 91	113 / 134

Loading Capacity for NC 40M Erlenmeyer Flasks

0.50	=00 I	1000	2000	2000	
250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
3x8 pcs.	2x4 pcs.	2x3 pcs.	1 pc.	1 pc.	1 pc.

Loading Capacity for NC 40M Schott-Duran Bottles

250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
3x12 pcs.	2x8 pcs.	2x5 pcs.	3 pc.	1 pc.	1 pc.

Loading Capacity for NC 90M Erlenmeyer Flasks

	250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
Г	4x12 pcs.	3x7 pcs.	3x4 pcs.	2x3 pcs.	2x1 pc.	1 pc.

Loading Capacity for NC 90M Schott-Duran Bottles

250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml	10000 ml
4x18 pcs.	3x11 pcs.	3x8 pcs.	2x4 pcs.	2x1 pc.	2x1 pc.	1 pc.

FACTORY FITTED OPTIONS

ACCESSORIES FOR OT 40L NC XXMY Panel mounted thermal printer S 09 028 Basket (Height: 345 mm) NuveLift™ to load/unload basket for NC 90M NC 90ME S 09 027 Basket (Height: 242 mm)

OPTIONS

AlerText™ GSM alarm module A 08 191

A 08 212 NuveCloser[™] Software CD with 3 m. RS 232 cable

ACCESSORIES FOR OT 90L

S 09 040

Basket (Height: 360 mm) S 09 034 S 09 035 Basket (Height: 242 mm) S 09 041 Basket (Height: 170 mm)

Basket (Height: 242 mm) (Special for NC 90ME) S 09 043

Basket (Height: 160 mm) (Unperforated)









Saracalar Mahallesi Saracalar Kümeevleri No:4/2 Akyurt Ankara, Türkiye

Laboratuvar ve Sterilizasyon Cihazları Tasarımı, Üretimi, Satış ve Satış Sonrası Hizmetleri

kapsamında

ISO 9001:2015

Uluslararası kalite sistem standardına uygun bir kalite yönetim sistem kurmuştur.

"Standardın aşağıda verilen maddeleri hariç tutulmuştur"
"Hariç tutma yoktur"

Sertifika No

: M 8215

İlk Belgelendirme Tarihi

: 28 Nisan 2010

Sertifika Tarihi

: 11 Mart 2022

Son Geçerlilik Tarihi

: 10 Mart 2025

Genel Müdür

Tel: +90 216 593 25 75 Faks: +90 216 593 25 74 info@kiwa.com.tr www.kiwa.com.tr

İstanbul / Türkiye

Sertifikalar periyodik ara denetimlerin başarılı ile tamamlanması kaydıyla geçerlidir. Detaylı bilgi için yukarıdaki numaralara başvurulabilir.

Kiwa Belgelendirme Hizmetleri A.Ş. İTOSB 9. Cadde No: 15 Tepeören Tuzla













Saracalar Mahallesi Saracalar Kümeevleri No:4/2 Akyurt Ankara, Turkey

Design, Manufacture, Sales And After Sales Services Of Laboratory
And Sterilization Equipments

with a scope of

ISO 9001:2015

Has established a quality management system in accordance with international standard.

"Following elements of the standard are excluded "
"None"

Certificate No

: M 8215

Initial Certification Date

: 28 April 2010

Certification Date

: 11 March 2022

Expiration Date

: 10 March 2025

Kiwa Belgelendirme Hizmetleri A.Ş. ITOSB 9. Cadde No. 15 Tepeören Tuzla Istanbul / Turkey

Tel: +90 216 593 25 75 Faks: +90 216 593 25 74 info@kiwa.com.tr www.kiwa.com.tr

Certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact above numbers for detailed information.





General Manager









Saracalar Mahallesi Saracalar Kümeevleri No:4/2 Akyurt Ankara, Türkiye

Laboratuvar ve Sterilizasyon Cihazları Tasarımı, Üretimi, Satış ve Satış Sonrası Hizmetleri

kapsamında

EN ISO 13485:2016

Uluslararası Tıbbi Cihazlar Kalite Yönetim Sistemi Standardına uygun bir yönetim sistemi kurmustur.

"Standardın aşağıda verilen maddeleri hariç tutulmuştur" "7.5.5" "7.5.7" "7.5.9.2"

Sertifika No

: M 8216

İlk Belgelendirme Tarihi

: 28 Nisan 2010

Sertifika Tarihi

: 11 Mart 2022

Son Geçerlilik Tarihi

: 10 Mart 2025

Kiwa Belgelendirme Hizmetleri A.Ş.

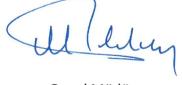
İTOSB 9. Cadde No: 15 Tepeören Tuzla İstanbul / Türkiye

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Tel: +90 216 593 25 75 Faks: +90 216 593 25 74

info@kiwa.com.tr www.kiwa.com.tr

Sertifikalar periyodik ara denetimlerin başarılı ile tamamlanması kaydıyla geçerlidir. Detaylı bilgi için yukarıdaki numaralara başvurulabilir.



Genel Müdür













Saracalar Mahallesi Saracalar Kümeevleri No:4/2 Akyurt Ankara, Turkey

Design, Manufacture, Sales And After Sales Services Of Laboratory
And Sterilization Equipments

with a scope of

EN ISO 13485:2016

Has established a management system in accordance with international Medical Devices Quality Management System Standard

"Following elements of the standard are excluded"

"7.5.5" "7.5.7" "7.5.9.2"

Certificate No

: M 8216

Initial Certification Date

: 28 April 2010

Certification Date

: 11 March 2022

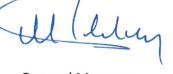
Expiration Date

: 10 March 2025

Kiwa Belgelendirme Hizmetleri A.Ş. ITOSB 9. Cadde No. 15 Tepeören Tuzla Istanbul / Turkey

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Certificate is valid till expiration date, subject to successful completion of periodical surveillance audits.
Please contact above numbers for detailed information.



General Manager







EC DECLARATION OF CONFORMITY

We, NÜVE Sanayi Malzemeleri İmalat ve Ticaret A.Ş. Saracalar Mah. Saracalar Kümeevleri No: 4/2 Akvurt 06750 Ankara / TURKEY

herewith declare that the following described product meets the provisions of the Council Directive 93/42/EEC (2007/47/EC) for Medical Devices. All supporting documentation is retained under the premises of the manufacturer.

PRODUCT:

STEAM STERILIZER

MODEL:

NC 90M

CLASSIFICATION:

IIB, Annex IX - RULE 15

GMDN:

35929

CONFORMITY ASSESMENT ROUTE:

MDD 93/42/EEC (2007/47/EC), ANNEX II.3

APPLICABLE HARMONISED

STANDARDS:

EN 61010-1: 2010

EN 62304: 2006

EN 61326-1: 2013

EN 62366-1: 2015

EN 61010-2-040: 2015 EN ISO 12100: 2010

EN 60601-1-6: 2010

NOTIFIED BODY:

KİWA BELGELENDİRME HİZMETLERİ A.Ş. (İTOSB) İstanbul Tuzla Organize Sanayi

Bölgesi Tepeören Mevkii 34957 Tuzla-İstanbul

TURKEY

CERTIFICATE NUMBER:

1984-MDD-10-030

DATE OF ISSUE:

February 19, 2019

SIGNATURE:



CE 1984





Awarded to

BIOSAN SIA

RĀTSUPĪTES IELA 7 K-2, RĪGA, LV-1067, LATVIA

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 13485:2016

SCOPE OF CERTIFICATION

DEVELOPMENT, DESIGN, PRODUCTION, SERVICE AND DISTRIBUTION OF MEDICAL DEVICES: DEVICE FOR MEASURING OPTICAL DENSITY (OD), AUTOMATIC MICROPLATE WASHER. SALES, STORAGE AND DISTRIBUTION OF ACTIVE AND NON ACTIVE NONIMPLANTABLE MEDICAL DEVICES.

Original cycle start date:

26-05-2022

Expiry date of previous cycle:

NA

Certification/Recertification audit date:

11-04-2022

Certification/Recertification cycle start date:

26-05-2022

Subject to the continued satisfactory operation of the organisation's

Management System, this certificate expires on:

25-05-2025

Certificate Number:

LV007756

Version: 1

Revision date:

26-05-2022



Certification body address: Bureau Veritas Latvia SIA, Duntes street 17a, Riga, LV-1005, Latvia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.









Awarded to

BIOSAN SIA

RĀTSUPĪTES IELA 7 K-2, RĪGA, LV-1067, LATVIA

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 9001:2015

SCOPE OF CERTIFICATION

DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF LABORATORY EQUIPMENT.

Original cycle start date:

25-05-2004

Expiry date of previous cycle:

25-05-2022

Certification/Recertification audit date:

17-05-2022

Certification/Recertification cycle start date:

26-05-2022

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on:

25-05-2025

Certificate Number:

LV007741

Version: 1

Revision date:

19-05-2022



Certification body address: Bureau Veritas Latvia SIA, Duntes street 17a, Riga, LV-1005, Latvia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.









Awarded to

BIOSAN SIA

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ISO 13485:2016

SCOPE OF CERTIFICATION

DEVELOPMENT, DESIGN, PRODUCTION, SERVICE AND DISTRIBUTION OF MEDICAL DEVICES: DEVICE FOR MEASURING OPTICAL DENSITY (OD), AUTOMATIC MICROPLATE WASHER. SALES, STORAGE AND DISTRIBUTION OF ACTIVE AND NON ACTIVE NONIMPLANTABLE MEDICAL DEVICES.

Original cycle start date:

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Expiry date of previous cycle:

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Certification/Recertification audit date:

11-04-2022

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Version: 1

Revision date:

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25-05-2022

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17-05-2022

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25-05-2025

Certificate Number:

LV007741

Version: 1

Revision date:

19-05-2022



Certification body address: Bureau Veritas Latvia SIA, Duntes street 17a, Riga, LV-1005, Latvia

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PST-60HL, Plate Shaker-Thermostat

Premium Product Class

DESCRIPTION

Plate Thermo-Shakers are designed for shaking and thermostating 2 standard 96-well microplates.

A multisystem principle, used in design of the Thermo-Shaker, allows operating it as 3 independent devices:

- Incubator;
- Microplate shaker;
- Thermo-Shaker.

A distinctive feature of Biosan Plate Thermo–Shakers is thepatented by the company Two–Side Microplates Heating, which allows to achieve full correspondence of the set and actual temperature in the microplate wells.

Thermo-shaker provides heating up to 60°C, which is sufficient for carrying out ELISA tests.

Plate Shaker-Thermostat provides:

- Soft or intensive sample shaking
- Rotation speed regulation, stabilization and indication
- Even rotation amplitude throughout the Thermo-Shaker platform
- Required operation time setting and indication
- Automatic stopping of the platform movement after expiration of the set time
- Setting and indication of the required temperature on the platform
- Automatic fault diagnostics (temperature sensor, platform heating, lid heating etc.)

Application fields:

- Cytochemistry for in situ reactions
- Immunochemistry for immunofermentative reactions
- Biochemistry for enzyme and protein analysis
- Molecular biology for micro array analysis

Temperature Calibration Function

With the help of the temperature calibration function the user can calibrate the unit approx. ±6% of the selected temperature to compensate differences in the thermal behaviour of plates from different manufacturers.



CAT. NUMBER

BS-010119-AAI	230VAC 50/60Hz Euro plug
BS-010119-AAQ	230VAC 50/60Hz UK plug
BS-010119-AA4	230VAC 50/60Hz AU plug
BS-010119-AAJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010119-BK	IQ OQ document
BS-010119-CK	PQ document

PST-60HL, Plate Shaker-Thermostat Page 1 of 2

SPECIFICATIONS

Temperature setting range	+25°C +60°C
Temperature control range	+5°C above ambient +60°C
Temperature setting resolution	0.1°C
Temperature stability	±0.1°C
Temperature uniformity at +37°C	±0.25°C
Temperature calibration coefficient range	0.9361.063 (± 0.063)
Heating	Patented two–side microplate heating
Speed control range	250-1200 rpm (increment 10 rpm)
Digital time setting	1 min–96 hrs / non–stop* (increment 1 min)
Timer sound signal	+
Orbit	2 mm
Display	LCD, 16 x 2 signs
Max. height of microtest plate	18 mm
Number of microtest plates	2
Platform dimensions (w x d)	250 x 150 mm
Overall dimensions (W×D×H)	270 x 260 x 125 mm
Weight	6.1 kg
Input current/power consumption	12 V DC, 3.3 A / 40 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V
* Timer range can be reprogrammed on customers demand	+

PST-60HL, Plate Shaker-Thermostat Page 2 of 2

EU Declaration of Conformity

Unit type Thermo-Shakers

Models TS-100, TS-100C, TS-100C Smart, TS-DW,

PST-60HL, PST-60HL-4, PST-100HL

Serial number 14 digits styled XXXXXXYYMMZZZZ, where XXXXXX is model code,

YY and MM - year and month of production, ZZZZ - unit number.

Manufacturer SIA BIOSAN

Latvia, LV-1067, Riga, Ratsupites str. 7/2

The objects of the declaration described above is in conformity with the following relevant Union harmonization legislations:

LVD 2014/35/EU	LVS EN 61010-1:2011 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements. LVS EN 61010-2-010:2015 Particular requirements for laboratory equipment for the heating of materials. LVS EN 61010-2-051:2015 Particular requirements for laboratory equipment for mixing and stirring.
EMC 2014/30/EU	LVS EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
RoHS3 2015/863/EU	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
WEEE 2012/19/EU	Directive on waste electrical and electronic equipment.

I declare that the Declaration of Conformity is issued under sole responsibility of the manufacturer and belongs to the above-mentioned objects of the declaration.

Svetlana Bankovska Managing director

Signature

Date



MR-1, Mini-Rocker Shaker

Basic Plus Product Class



Mini Rocker–Shaker MR-1 provides regulated gentle rocking motion of the platform and is ideal for mini gel destaining after electrophoresis, conducting Northern, Southern and Western blot analysis.

Shaker is a compact, noiseless device designed for personal use. The use of direct drive and brushless motor allows continuous mixing up to 7 days and ensures reliable, trouble-free operation for more than 2 years.

Non–slip, temperature resistant, silicone mat located on the rocker's platform provides stable position for vessels during shaking. Optional dimpled PDM mat fixes tubes of different sizes.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C

Optional dimpled mat PDM prevents different size tubes from rolling around the platform.



SPECIFICATIONS

Mixing frequency range	1-30 oscil/min
Digital time setting	1 min-24 hrs / non-stop
Fixed tilt angle	7°
Direct drive mechanism	+
Maximum continuous operation time	168 h
Display	LED
Maximum load	1 kg
Non-slip silicone mat is supplied as standard	+
Platform working area	215x215 mm
Overall dimensions (W×D×H)	220x205x120 mm
Weight	2.1 kg
Input current/power consumption	12 V, 320 mA / 3.8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

BS-010152-AAG	230VAC 50/60Hz Euro plug
BS-010152-AAK	230VAC 50/60Hz UK plug, 230VAC 50/60Hz AU plug, 100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010107-BK	IQ OQ document
BS-010107-CK	PQ document

MR-1, Mini-Rocker Shaker Page 1 of 2





PDM PDM dimpled mat

Dimpled mat PDM prevents different size tubes from rolling around the platform.

MR-1, Mini-Rocker Shaker Page 2 of 2

EU Declaration of Conformity

Unit type Rockers, shakers, rotators, vortexes

Models MR-1, MR-12;

3D, Multi Bio 3D, PSU-10i, PSU-20i, MPS-1, PSU-2T;

Bio RS-24, Multi Bio RS-24, Multi RS-60;

V-1 plus, V-32, MSV-3500

Serial number 14 digits styled XXXXXYYMMZZZZ, where XXXXXX is model code,

YY and MM – year and month of production, ZZZZ – unit number.

Manufacturer SIA BIOSAN

Latvia, LV-1067, Riga, Ratsupites str. 7/2

The objects of the declaration described above is in conformity with the following relevant Union harmonization legislations:

LVD 2014/35/EU	LVS EN 61010-1:2011 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements. LVS EN 61010-2-051:2015 Particular requirements for laboratory equipment for mixing and stirring.
EMC 2014/30/EU	LVS EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
RoHS3 2015/863/EU	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
WEEE 2012/19/EU	Directive on waste electrical and electronic equipment.

I declare that the Declaration of Conformity is issued under sole responsibility of the manufacturer and belongs to the above-mentioned objects of the declaration.

Svetlana Bankovska Managing director

Signature

7. 02. 2020 -Date

EU Declaration of Conformity

Unit type Rockers, shakers, rotators, vortexes

Models MR-1, MR-12;

3D, Multi Bio 3D, PSU-10i, PSU-20i, MPS-1, PSU-2T;

Bio RS-24, Multi Bio RS-24, Multi RS-60;

V-1 plus, V-32, MSV-3500

Serial number 14 digits styled XXXXXYYMMZZZZ, where XXXXXX is model code,

YY and MM – year and month of production, ZZZZ – unit number.

Manufacturer SIA BIOSAN

Latvia, LV-1067, Riga, Ratsupites str. 7/2

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Svetlana Bankovska Managing director

Signature

7. 02. 2020 -Date



V-1 plus, Personal Vortex

DESCRIPTION

Vortex V-1 plus is an ideal instrument for gentle mixing to vigorous resuspension of cells and biological and chemical liquid components in tubes using eccentric mechanism.

Vortex has two modes:

- 1. Continuous operation;
- 2. Impulse operation (activated by pressing the cap with the tube's bottom).

SPECIFICATIONS

Eccentric mixing principle	+
Speed control range	500-3000 RPM
Acceleration time	<1 s
Maximum continuous operation time	24 h
Mixing module for tubes	from 0.2 to 50 ml
Maximum mixing volume	30 ml
Orbit	4 mm
Overall dimensions (W×D×H)	90x150x80 mm
Weight	0.8 kg
Input current/power consumption	12 V, 320 mA / 3.8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V





CAT. NUMBER

BS-010203-AAG	230VAC 50/60Hz Euro plug
BS-010203-AAK	230VAC 50/60Hz UK plug, 230VAC 50/60Hz AU plug, 100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010203-BK	IQ OQ document
BS-010203-CK	PQ document

V-1 plus, Personal Vortex Page 1 of 1