



HOMOGENIZER

HOMOGENIZER BFA1DC1

MINI HANDHELD HOMOGENIZER

The mini homogenizer is hand-held designed. It is smart and light, easy to operate. With DC motor to drive the grinding pestle, configure 1.5ml centrifugal tube, efficiently grind trace tissue. The grinding pestle is light and reusable, convenient to be dismantled.



Light and easy to operate.

Use micro DC motor for grinding trace tissue, grinding microstructure, short time and quick effect.

Grinding pestle is light and reusable, suitable for various sterile ways, convenient to be dismantled.

SPECIFICATIONS

Model	BFA1DC1
Old Model	BMGS-207
Speed Range	16000rpm Fixed speed
Working Noise	55dB
Battery Non-loaded Working Time	2 hours (Idling)
Battery Charging time	≥ 2 hours
Voltage	2.4V
Battery	AA battery x 2
Dimension (WxDxH)	W.143mm x D.25mm x H.143mm
Net Weight	0.18kgs
Alt Name	Mini Handheld Homogenizer



APPLICATIONS

Suitable for grinding various plant tissue samples such as root, stem, leaf, flower, fruit, seed, etc.

Suitable for grinding various animal tissue samples such as cerebrum, heart, lung, stomach, liver, thymus, kidney, intestine, lymphonodus, muscle, etc.

Suitable for homogenate.

HOMOGENIZER BFA1DB1

HANDHELD HOMOGENIZER

The homogenizer is smart hand held instrument for fast organization homogeneous, separation and emulsification. Its working principle is making the sample circularly loop into a narrow space between the high speed and relative motion stator to shear and break the sample. It is applied in various territories such as bio-pharmaceuticals, gene research, organization broken, cell slurring, clinicopathologic analysis, emulsions, nanometer materials scattering, polymerization reaction, cosmetics, ink & paint, fine chemical engineering, pesticide, prospection, environmental protection, energy sources, etc.



Designed smart and light. Can operate in one hand.
Speed adjustable, digital display speed. Speed precisely controlled to avoid splashing.
Suitable for homogeneous dispersion of a small amount of sample in small container.
High quality stainless steel dispersing head, anti-corrosion, high temperature resistance for disinfecting.
Easy to take off the dispersing head for cleaning.
High speed and high efficiency motor, long life.
Optional H-type stand, height and angle can be adjusted, convenient to take and store.

SPECIFICATIONS

Model	BFA1DB1
Old Model	BMGS-206
Speed Range	8krpm~35Krpm (1krpm Increment)
Rotor Line Speed	6.3m/sec~14m/sec
Working Noise	72dB
Voltage	AC 220V, 50Hz
Power Input/Output	160W/110W
Dimension	W.46xD.55xH.230mm
Net Weight	0.8kgs
Alt Name	Handheld Homogenizer



ACCESSORIES FOR PURCHASE

No	Name	Handling Capacity	Diameter of Outer Head	Diameter of Inner Head	Gap between Outer and Inner Head	Min/Max. Dipping Depth	Length of the Head	Material
1	MT30KA	0.5-50ml	6mm	3.9mm	0.1mm	20/90mm	150mm	316L
2	MT30KB	1-100ml	8mm	6.1mm	0.3mm	20/107mm	167mm	316L
3	MT30KC	1-250ml	10mm	7.9mm	0.3mm	20/120mm	180mm	316L

4	MT30KD	H-type stand; used to hold the homogenizer; height and angle are adjustable						
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HOMOGENIZER BFL1BR1

HANDHELD HOMOGENIZER



Portable, lightweight with ergonomic design ideal for manual operations
 Processing volumes from 0.1-50 mL or 1-250 mL
 Variable speed from 8,000 to 32,000 rpm
 316L stainless steel shafts are fully autoclavable
 Interchangeable shafts for easy dismantling and cleaning

SPECIFICATIONS

Model	BFL1BR1
Old Model	BHMS-110
Speed range	8000-32000rpm
Max linear velocity	6.3, 10, 14 m/sec
Speed level	10 stage
Working volume [H2O]	0.1-50mL (Dispersing shaft DS-160/5)1-150mL (Dispersing shaft DS-160/7)1-250mL (Dispersing shaft DS-160/10)
Max. viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Noise Level	72 dB(A)
Protection class	IP20
Voltage, Frequency	110-120V/60Hz220-240V/50-60Hz
Power	160W
Motor Type	AC carbon brush motor
Dimension [WxDxH]	45mm x 55mm x 190mm
Weight	0.54 kg
Permissible ambient temperature and humidity	0-40°C, 85%RH
Alt Name	Handheld Homogenizer

ITEMS INCLUDED

No	Name	Description
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1	shaft	Volume: 0.1-50 mL Max. Circum. Speed: 6.3 m/s Material: 316L stainless steel Application: small amounts of solid-liquid mixed Function: dispersing tool for solid/liquid media
2	shaft	Volume: 1-250 mL Max. Circum. Speed: 14 m/s Material: 316L stainless steel Application: small amounts of solid-liquid mixed Function: dispersing tool for solid/liquid media
3	shaft	Volume: 1-150 mL Max. Circum. Speed: 10 m/s Material: 316L stainless steel Application: small amounts of solid-liquid mixed Function: dispersing tool for solid/liquid media



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APPLICATIONS

Designed for rapidly homogenizing, emulsifying, suspending and disrupting biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1 mL to 250 mL depending on shaft chosen.

HOMOGENIZER BFL1BS1

HIGH SHEAR HOMOGENIZER

The high shear homogenizer is applicable to various tasks from sample preparation to formulation study. The motor drives the rotor to rotate at high speed, and the sample is homogenized or dispersed by the gap between the rotor and stator, usually in a short period of time.



High quality 316L stainless steel with corrosion and autoclave resistance
Rotor with simple design can be dismantled, cleaned, and sterilized conveniently 6 speed levels
Applicable for sample with viscosity up to 10000 mPa·s
Replaceable rotors and stators sharing the same shaft, cost-effective
Automatic overload protection mechanism maximizes the working life of motor
Smooth motor start, stable acceleration without spillage risk

SPECIFICATIONS

Model	BFL1BS1
Old Model	BHMS-111
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa·s

Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75 x 75 x 280mm
Weight	1.7kg
Permissible ambient temperature and humidity	0-40°C, 85%RH
Alt Name	High Shear Homogenizer

ITEMS INCLUDED

No	Name	Description
1	shaft	Solid and liquid dispersion Volume 10-5000mL Max. circum. Speed 22.7m/sec General purpose Emulsion granularity range 1-10µm Suspension granularity range 10-50µm
2	shaft	Emulsion Volume 10-5000mL Max. circum. Speed 22.7m/sec General emulsion purpose Emulsion granularity range 1-10µm Suspension granularity range 10-50µm



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APPLICATIONS

Widely applied for histiocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, dairy product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

Routine homogenization, emulsion, depolymerization, dispersion application

Disperse substance to form suspension and emulsion

Disperse pigment and resin

Disperse animal or human tissue into various solutions

Facilitate the dissolve of solid substances

Sample preparation for quality control test

Animal or plant cell lysis

Emulsion, cream cosmetics, and food formulation study

Extraction of active pharmaceutical ingredient from pills and tablets

HOMOGENIZER BGI1CC1 BGI1CC2

HOMOGENIZER

The B-170 is a simple, easy to handle and has the ability to achieve quality results quickly. He has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.



The B- 170 is a rotor/stator type hand held tissue homogenizer which can rapidly dispersing, homogenizing, extractions, cell disruption, mixing, emulsifying, suspending samples in 0.1 - 50 ml of liquid or 1-250ml depending on the dispersing shaft. During operation, the suspended material is drawn into the core of the homogenizer by a rotor turning at up to 30,000 rpm. The material is repeatedly cycled through narrow slits in the stator where it is rapidly sheared and disintegrated by high shear mechanical action. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is usually achieved in a few seconds. Little, if any, heat is produced during the process.

SPECIFICATIONS

Model	BGI1CC1	BGI1CC2
Old Model	BLHM-901	BLHM-902
Voltage/ Frequency	220-240V/50-60Hz	
Power input/output(W)	120Watt	
Speed range (rpm)	1000~35000rpm	
Rotor speed (m/sec)	5~10m/sec	
Speed Setting	6 speeds	
Range (ml, H2O)	0.2~50ml (Shaft B-170/5)	30~150ml (Shaft B-170/10)
Max viscosity (mPas)	2000mPas	
Material	stainless steel PTFE	
Weight (kg)	0.6kg	
Dimensions (mm)	55mmx46mmx185mm	
Noise emission (drive only)	72dB(A)	
Operating Environment	0~40°C, 85% rel. humidity	
Protection class	IP20	
Alt Name	Homogenizer	

ACCESSORIES FOR PURCHASE

No	Name	Treatable Volume (H2O)(ml)	Max linear velocity (m/sec)	Rotor diameter (mm)	Stator diameter (mm)	Min/max emersion depth (mm)
1	B-170/5	0.2-50	5	4	6	10/55
2	B-170/10	30-150	10	7	10	15/130



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HOMOGENIZER BFR1J1

ASEPTIC HOMOGENIZER

Aseptic homogenizer, also known as beating homogenizer, is widely used in homogenization treatment of animal tissues and biological samples.



The device can effectively separate the surface of a solid sample and the microorganisms contained in it.

The sample is packed in a disposable sterile homogenization bag without contacting the instrument.

It has the characteristics of soft homogenization, no pollution, no damage, no temperature rise, no sterilization and no washing of utensils.

It meets the requirements of fast, accurate results and good repeatability.

This product is also suitable for homogenization of tumor tissues (such as liver cancer, colorectal cancer, gastric cancer and breast cancer).

It can not only obtain a large number of single cells (up to 2×10^5 in 2 minutes).

If necessary, it can extend the homogenization time and accelerate the homogeniz

SPECIFICATIONS

Model	BFR1J1
Control mode	Microcomputer control
Parameter storage	8-segment combination programming
Display mode	4.3 inch touch screen display
Operation mode	touch screen
Slap time	1s~99H59M59S or continuous operation
Clapper material	Stainless steel with special extrusion protective cover
Slap speed	3-12 times / S
Heating function	-
Temperature range	-
Disinfection function	Yes, the disinfection wavelength is 253.7nm
Effective volume	3~400ml
Aseptic bag size	17*30cm
Tank body	Stainless steel with anticorrosive plastic spraying
Slap spacing	0~50mm
Startup mode	slow-start
Pause function	Yes
Power	220V/220W
Anti pinch function	With automatic stop anti pinch function
Other function	Removable window with tempering glass
Voice prompt function	Yes
Size	420*230*330mm
Weight (net weight)	18.5KG
Outer package size	540*310*410
Alt Name	Aseptic Homogenizer

FEATURES

The device can effectively separate the surface of a solid sample and the microorganisms contained in it.

The sample is packed in a disposable sterile homogenization bag without contacting the instrument.

It has the characteristics of soft homogenization, no pollution, no damage, no temperature rise, no sterilization and no washing of

utensils.

It meets the requirements of fast, accurate results and good repeatability.

This product is also suitable for homogenization of tumor tissues (such as liver cancer, colorectal cancer, gastric cancer and breast cancer).

It can not only obtain a large number of single cells (up to 2×10^5 in 2 minutes).

If necessary, it can extend the homogenization time and accelerate the homogenization speed, so as to achieve soft fragmentation of tissue cells (such as liver, etc.).

APPLICATIONS

It can be used in food, drug, cosmetics, clinical, molecular, toxin and bacterial detection fields, especially for the preparation of microbial test samples.

HOMOGENIZER BGI1CB1 BGI1CB2 BGI1CB3

HOMOGENIZER

The B-500 is a simple, easy to handle and has the ability to achieve quality results quickly. It has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.



- The B-500 homogenizer is the ideal solution for dispersing, homogenizing, mixing and grinding biological tissue samples (cells, animal and plant tissues), pharmaceutical products, cosmetics and food products. The WT500 is characterized by a high versatility that makes it unique on the market. A "Quick Lock" single quarter turn assembly shaft= can be combined with a wide selection of stator and rotor configurations according to the specific application for which it is to be used. Flexible, easy-to-use, rapid and user-friendly stator and rotor interchangeability: a single instrument for a wide range of uses that ensures excellent performance and safety. model.

SPECIFICATIONS

Model	BGI1CB1	BGI1CB2	BGI1CB3
Old Model	BLHM-801	BLHM-802	
Voltage/ Frequency	220-240V/50-60Hz		
Power input/output(W)	500		1050
Speed range (rpm)	10000~30000rpm		4000~26000rpm
Rotor speed (m/sec)	27m/sec		47m/sec
Speed Setting	7 speeds		100rpm step adjustable
Time Setting	-		1~999min
Range (ml, H2O)	100ml~5,000ml (Shaft B-500/25G)	100ml~5,000ml (Shaft B-500/25F)	0.2~10000
Max viscosity (mPas)	10,000mPas		
Material	stainless steel PTFE		
Weight (kg)	9kg		6.5kg
Dimensions (mm)	70x70x255		90x90x365
Noise emission (drive only)	79dB(A)		
Operating Environment	0~40°C, 85% rel. humidity		
Protection class	IP20		

Alt Name	Homogenizer
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BG11CB1 BG11CB2



BG11CB3

ACCESSORIES FOR PURCHASE BG11CB1 BG11CB2

No	Name	Medium Function	Treatable Volume (H2O)(ml)	Max linear velocity (m/sec)	Rotor diameter (mm)	Stator diameter (mm)	Min/max emersion depth (mm)
1	B-500/6G	Liquid/ Liquid	0.2-50	5	4	6	10/55
2	B-500/10G	Liquid/ Liquid	30-150	10	7	10	15/130
3	B-500/20G	Solid/ Liquid	50-1500	22	15	20	50/170
4	B-500/20F	Emulsion	50-1500	22	15	20	50/170
5	B-500/25G	Solid/ Liquid	100-5000	27	18	25	60/170
6	B-500/25F	Emulsion	100-5000	27	18	25	60/170



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ACCESSORIES FOR PURCHASE BG11CB3

No	Name	Medium Function	Treatable Volume (H2O)(ml)	Max linear velocity (m/sec)	Rotor diameter (mm)	Stator diameter (mm)	Min/max emersion depth (mm)
1	B-500/6G	Liquid/ Liquid	0.2-50	5	4	6	10/55
2	B-500/10G	Liquid/ Liquid	30-150	10	7	10	15/130
3	B-500/20G	Solid/ Liquid	50-1500	22	15	20	50/170
4	B-500/20F	Emulsion	50-1500	22	15	20	50/170
5	B-500/25G	Solid/ Liquid	100-5000	27	18	25	60/170
6	B-500/25F	Emulsion	100-5000	27	18	25	60/170
7	B-500/30JX	Coarse Shaft	250-10000ml	47	15	30	40/200
8	B-500/30JQ	Fine Shaft	250-8000ml	47	15	30	40/200



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HOMOGENIZER BFA111

BENCHTOP HOMOGENIZER

Benchtop homogenizer is a fast high-throughput homogenizer, combines the functions of grinding, cracking, homogenization as one. It is through the three-dimensional high-speed vibration, grinding beads (glass beads, ceramic beads, steel balls, etc.) beating, to achieve the sample grinding, cracking and homogenizing purpose.



Exquisite design, stable body, man-machine angle design, easy to operate. Adopting 4.3-inch color screen, display parameters of the indicators, parameter setting is convenient and fast. The program built-in 10 groups commonly used parameter settings, one key call, convenient and quick. Different materials grinding beads and corresponding programs can be selected for different samples. Homogeneous effect is good, time-saving and efficient, not only save time and effort, and the difference inter-batch and inside batch is smaller. Each sample uses a separate crushing tube without cross-contamination. A variety of materials and diameters of abrasive beads are available for different type of samples.

SPECIFICATIONS

Model	BFA111
Old Model	BLHM-1001
Oscillation speed	2460~6000rpm, Increment in 10rpm
Operation time	1s~90s, Increment in 1s
Interval time	1s~90s, Increment in 1s
Cycle index	10
Stored program	10
Sample capacity	24 piece 2ml/1.5ml grinding tube
Acceleration time	<7s @6000rpm
Deceleration time	<7s @6000rpm
Noise level	<75db
Max. input power	500W
Input power	AC100~240V, 50/60Hz
Dimension(WxDxH)	W.300mmxD.350mmxH.300mm
Net weight	28kgs
Alt Name	Benchtop Homogenizer

ACCESSORIES FOR PURCHASE

No	Name	Specs	Quantity
1	Cryotube	2.0mL	50
2	Stainless steel beads	Φ3	150
3	Zirconium beads	Φ3	150
4	Zirconium beads	Φ1.5	100g
5	Glass bead	Φ3	150

6	Glass bead	Φ1.2	100g
7	Glass bead	Φ0.5	100g

FEATURES

Exquisite design, stable body, man-machine angle design, easy to operate.

Adopting 4.3-inch color screen, display parameters of the indicators, parameter setting is convenient and fast.

The program built-in 10 groups commonly used parameter settings, one key call, convenient and quick.

Different materials grinding beads and corresponding programs can be selected for different samples.

Homogeneous effect is good, time-saving and efficient, not only save time and effort, and the difference inter-batch and inside batch is smaller.

Each sample uses a separate crushing tube without cross-contamination.

A variety of materials and diameters of abrasive beads are available for different type of samples.

Can homogenize most of the samples and retain the integrity of biomolecules (DNA, RNA, protein) and drug molecules.



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