



CONCENTRATOR

CONCENTRATOR BFA1CG1

MINI SAMPLE CONCENTRATOR

The mini sample concentrator is mainly used for the concentration or preparation of bulk samples (such as drug screening, hormone analysis, liquid phase, and sample preparation in mass spectrometry). Working principle: By blowing nitrogen into the surface of the heated sample, the solvent in the sample is quickly evaporated and separated, thereby achieving the purpose of anaerobic concentration of the sample and keeping the sample more pure.



Unique air circuit control patent design, enhance air tightness and reduce the risk of air leakage; Easy to operate, lift/press air needle to realize channel switch; the switching status of each channel is quite clear.

The heater heats the sample rapidly to the evaporation temperature, and at the same time, the gas is blown to the surface of the solution through the gas needle, which promotes rapid evaporation of the solution and concentration of the sample. The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.

Separately blow of 6 needles and flow regulating of each needle are available to avoid gas waste.

The entire equipment can be put into ventilation cabinet when the concentration

SPECIFICATIONS

Model	BFA1CG1
Old Model	BCON-101
Temp. Range	R.T.+5°C~100°C
Heating Time	≤12min(From 40°C to 100°C)
Temp. Accuracy (100°C)	±0.5°C
Temp. Accuracy (40°C)	±0.3°C
Blocks Quantity	1Block
Time Range	1sec~999s or 1min0~999min
Nitrogen Flow Rate	0~10L/min
Nitrogen Pressure	<0.1MPa
Power	60W
Dimensions	W.110 x D.156 x H.400 mm
Net weight	1.2kgs
Alt Name	Mini Sample Concentrator

ACCESSORIES FOR PURCHASE

No	Name	Accessories code	Tube Quantity & Dia. of hole
1	Tube	MiniP-C	6 x φ15mm
2	Tube	MiniP-D	6 x φ16mm
3	Tube	MiniP-F	Customized



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FEATURES

Unique air circuit control patent design, enhance air tightness and reduce the risk of air leakage; Easy to operate, lift/press air needle to realize channel switch; the switching status of each channel is quite clear.

The heater heats the sample rapidly to the evaporation temperature, and at the same time, the gas is blown to the surface of the solution through the gas needle, which promotes rapid evaporation of the solution and concentration of the sample.

The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.

Separately blow of 6 needles and flow regulating of each needle are available to avoid gas waste.

The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

LED displays immediate temperature and diminishing time. Operation is simple and convenient.

Standard configured air cavity and adjustable bracket.

CONCENTRATOR BFA1CC1 BFA1CC2

SAMPLE CONCENTRATOR

The sample concentrator is mainly used for the concentration or preparation of bulk samples (such as drug screening, hormone analysis, liquid phase, and sample preparation in mass spectrometry). Working principle: By blowing nitrogen into the surface of the heated sample, the solvent in the sample is quickly evaporated and separated, thereby achieving the purpose of anaerobic concentration of the sample and keeping the sample more pure.



The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.

LED displays immediate temperature and diminishing time.

Operation is simple and convenient.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

The entire equipment can be put into ventilation cabinet when the concentration sample is in toxic solvents.

Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.

Unique patented design for air channel control system, enhances air tightness and reduces potential leakage; easy to operate, lift/press air needle to realize c

SPECIFICATIONS

Model	BFA1CC1	BFA1CC2
Old Model	BCON-103	BCON-106
Temp. Control Range	R.T.+5°C ~150°C	
Temp. Setting Range	5°C~150°C	
Temp. Stability@40~100°C	±0.5°C	
Temp. Stability@100~150°C	±1°C	
Block Temp. Uniformity@100°C	±0.5°C	
Block Temp. Uniformity@150°C	±1 °C	
Temp. Display Accuracy	0.1°C	
Heating Speed	<30min (40°C to 150°C)	
Time Range	1min~99h59min	
Needle Plate Max. Lift Stroke	285mm	
Gas-in Joint Outer Diameter	Φ7mm	
Nitrogen Pressure	<0.1MPa	
Nitrogen Flow Rate	0 ~10L/min	
Needle Length	150mm	
Sample Capacity	1 standard block	2 standard block

Voltage	AC 220V / AC 110V, 50/60Hz	
Power	200W	400W
Fuse	250V, 2A/3A, Φ 5x20	250V, 3A/6A, Φ 5x20
Dimension	W.200 x D.230 x H.525mm	W.200 x D.260 x H.525mm
Net Weight	5.1kgs	6.1kgs
Alt Name	Sample Concentrator	



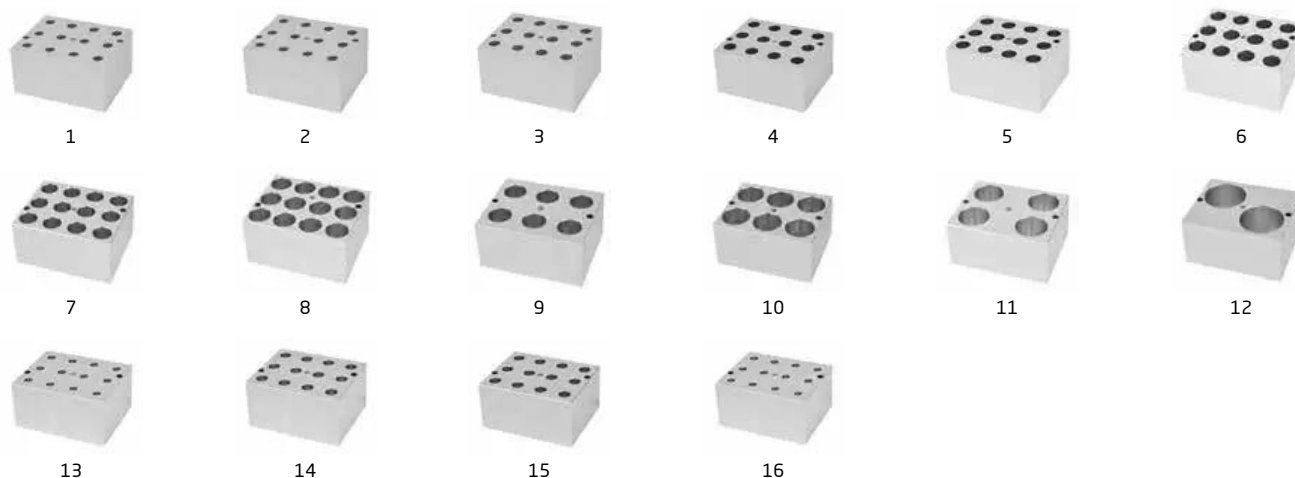
BFA1CC1



BFA1CC2

ACCESSORIES FOR PURCHASE

No	Accessories code	Spec	Dia. of hole	Name	Block dimension
1	DT01A	6 mm x 12	6.5 mm	Round bottom	95.5 x 76.5 x 50 mm
2	DT02A	7 mm x 12	7.5 mm	Round bottom	95.5 x 76.5 x 50 mm
3	DT03A	10 mm x 12	10.5 mm	Round bottom	95.5 x 76.5 x 50 mm
4	DT04A	12 mm x 12	12.5 mm	Round bottom	95.5 x 76.5 x 50 mm
5	DT05A	13 mm x 12	13.5 mm	Round bottom	95.5 x 76.5 x 50 mm
6	DT06	15 mm x 12(7ml tube)	15.5 mm	Round bottom	95.5 x 76.5 x 50 mm
7	DT07	16 mm x 12(10ml/15ml tube)	16.5 mm	Round bottom	95.5 x 76.5 x 50 mm
8	DT08	19 mm x 12	19.5 mm	Round bottom	95.5 x 76.5 x 50 mm
9	DT09	20 mm x 6	20.5 mm	Round bottom	95.5 x 76.5 x 50 mm
10	DT10	26 mm x 6	26.5 mm	Round bottom	95.5 x 76.5 x 50 mm
11	DT11	28 mm x 4(50ml tube)	28.5 mm	Flat bottom	95.5 x 76.5 x 50 mm
12	DT12	40 mm x 2	40.5 mm	Round bottom	95.5 x 76.5 x 50 mm
13	DT13A	0.5 ml x 12	8 mm	Cone bottom	95.5 x 76.5 x 50 mm
14	DT14A	1.5 ml x 12	10.8 mm	Cone bottom	95.5 x 76.5 x 50 mm
15	DT15A	2.0 ml x 12	10.8 mm	Cone bottom	95.5 x 76.5 x 50 mm
16	DT16A	0.2 ml x 12	6.1 mm	Cone bottom	95.5 x 76.5 x 50 mm
17	DT19	Customized	Customized	Customized	Customized



FEATURES

The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.

LED displays immediate temperature and diminishing time.

Operation is simple and convenient.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

The entire equipment can be put into ventilation cabinet when the concentration sample is in toxic solvents.

Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.

Unique patented design for air channel control system, enhances air tightness and reduces potential leakage; easy to operate, lift/press air needle to realize channel switch; the switching status of each channel is clear at a glance.

Standard configured air cavity and adjustable bracket.

Note: Flow control valve is optional. While choose blocks for NDK-2N model , choose two blocks with the same hole quantity. DT01A, DT02A, DT16A needs to be customized in advance.

CONCENTRATOR BFA1CE1

SAMPLE CONCENTRATOR

Sample Concentrator (visible) is mainly used for concentrating or preparing sample in batch. Such as drug screening, hormone analysis, liquid phase and mass spectrometry in the analysis of sample preparation. It works by blowing nitrogen, in the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen.



Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.

The length of a standard gas needle is 150mm.

The height of the air chamber plate can be adjusted. The unique characteristics: Sample surface in the tube can be observed while concentrating.

Gas needle is controlled independently. Separately blow of each needle and flow regulating of each needle are available to avoid gas waste.

The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

SPECIFICATIONS

Model	BFA1CE1
Old Model	BCON-109
Temp. Control Range	R.T. +5°C~150°C
Temp. Setting Range	5°C~150°C
Temp. Stability@40~100°C	±0.5°C
Temp. Stability@100~150°C	±1°C
Block Temp. Uniformity@100°C	±0.5°C
Block Temp. Uniformity@150°C	±1°C
Temp. Display Accuracy	0.1°C
Heating Speed	<30min (40°C to 150°C)
Time Range	1min ~99h59min
Needle Plate Max. Lift Stroke	285mm
Gas-in Joint Outer Diameter	Φ7mm
Nitrogen Pressure	<0.1MPa
Nitrogen Flow Rate	0~10L/min
Needle Length	150mm
Sample Capacity	1 Standard Visible Block
Voltage	AC 220V / AC 110V, 50/60Hz
Power	400W
Fuse	250V, 3A/6A, Φ5x20
Dimension (WxDxH)	W.220 x D.260 x H.525mm
Net Weight	5.8kgs
Alt Name	Sample Concentrator



ACCESSORIES FOR PURCHASE

No	Accessories code	Spec	Dia. of hole	Name	Block dimension
1	NK01	10 mm x 12	10.5 mm	Round bottom	153.5 x 95.5 x 50 mm
2	NK02	12 mm x 12	12.5 mm	Round bottom	153.5 x 95.5 x 50 mm
3	NK03	13 mm x 12	13.5 mm	Round bottom	153.5 x 95.5 x 50 mm
4	NK04	15 mm x 12(7ml tube)	15.5 mm	Round bottom	153.5 x 95.5 x 50 mm
5	NK05	16 mm x 12(10ml/15ml tube)	16.5 mm	Round bottom	153.5 x 95.5 x 50 mm
6	NK06	19 mm x 12	19.5 mm	Round bottom	153.5 x 95.5 x 50 mm
7	NK07	20 mm x 12	20.5 mm	Round bottom	153.5 x 95.5 x 50 mm



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FEATURES

Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.

The length of a standard gas needle is 150mm.

The height of the air chamber plate can be adjusted. The unique characteristics: Sample surface in the tube can be observed while concentrating.

Gas needle is controlled independently. Separately blow of each needle and flow regulating of each needle are available to avoid gas waste.

The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

LED displays immediate temperature and diminishing time. Operation is simple and convenient.

CONCENTRATOR BFA1CF1

SAMPLE CONCENTRATOR

Sample Concentrator (96-gas-needles) is mainly used for concentrating or preparing sample in batch. Such as drug screening, hormone analysis, liquid phase and mass spectrometry in the analysis of sample preparation. It works by blowing nitrogen in the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen.



The heater heats the sample rapidly to the evaporation temperature, and at the same time, the gas is blown to the surface of the solution through the gas needle, which promotes rapid evaporation of the solution and concentration of the sample. The height of the air cavity can be adjusted. The length of a standard gas needle is 80mm.

The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.

Built in overheat protection, automatic fault detection and fault beep alarm devices.

LED displays immediate temperature and diminishing time.

SPECIFICATIONS

Model	BFA1CF1
Old Model	BCON-102
Temp. Control Range	R.T.+5°C~150°C
Temp. Setting Range	5°C~150°C
Temp. Stability@40~100°C	±0.5 °C
Temp. Stability@100~150°C	±1 °C
Block Temp. Uniformity@100°C	±0.5 °C
Block Temp. Uniformity@150°C	±1 °C
Temp. Display Accuracy	0.1 °C
Heating Speed	<30min (40°C to 150°C)
Time Range	1min ~99h59min
Air cavity Max. Lift Stroke	275mm
Gas-in Joint Outer Diameter	Φ7mm
Nitrogen Pressure	<0.1MPa

Nitrogen Flow Rate	0 ~10L/min
Needle Length	80mm
Sample Capacity	1 Standard Plate Block
Voltage	AC 220V/AC 110V, 50/60Hz
Power	400W
Fuse	250V, 3A/6A, Φ 5x20
Dimension (WxDxH)	W.220 x D.260 x H.445mm
Net Weight	5.5kgs
Alt Name	Sample Concentrator

ACCESSORIES FOR PURCHASE

No	Accessories code	Spec	Dia. of hole	Name	Block dimension
1	DT17	0.2ml x96	6.7mm	Cone bottom	95.5 x 153.5 x 33.5mm
2	DT18	Flat bottom plates	Top size 76x116 x 4mm	Flat plate block	95.5 x 153.5 x 22.5mm



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CONCENTRATOR BFA1CD1 BFA1CD2

SAMPLE CONCENTRATOR

A sample concentrator is mainly used for the concentration or preparation of bulk samples (such as drug screening, hormone analysis, liquid phase, and sample preparation in mass spectrometry). Working principle: By blowing nitrogen into the surface of the heated sample, the solvent in the sample is quickly evaporated and separated, thereby achieving the purpose of anaerobic concentration of the sample and keeping the sample more pure.



Wide temperature control range up to 150°C.

Equipped with an air chamber and a special adjustable stand, nitrogen blowing can be achieved.

Simple or programmed temperature control mode, making the experiment more convenient.

Compact structure, easy to use in narrow spaces.

High-definition color screen display, providing an intuitive and clear visual experience.

Real-time temperature and constant temperature countdown time.

With metal blocks, samples are protected from contamination.

The metal block is easy to replace, easy to clean and sterilize.

Built-in over-temperature protection device to keep you and experiments safe.

SPECIFICATIONS

Model	BFA1CD1	BFA1CD2
Old Model	BCON-107	BCON-108
Temp. Control Range	R.T.+5°C~150°C	
Temp. Setting Range	5°C~150°C	
Time Range	1min~99h59m (00:00 is continued)	
Block temp. Stability@40~100°C	±0.5°C	
Block temp. Stability@>100°C	±1°C	

Block Temp. Uniformity@40°C	±0.3°C	
Block Temp. Uniformity@>40°C	±0.5°C	
Temp. Display Accuracy	0.1°C	
Heating Speed	<15min(20°C-150°C)	
Needle Plate Max. Lift Stroke	285mm	
Gas-in Joint Outer Diameter	Φ7mm	
Nitrogen Pressure	<0.1MPa	
Nitrogen Flow Rate	0~10L/min	
Needle Length	150mm	
Sample Capacity	1 standard block	2 standard blocks
Voltage	AC 220V/AC 110V 50Hz/60Hz	
Power	200W	400W
Fuse	250V, 2A/3A, Φ5x20	250V, 3A/6A, Φ5x20
Dimension(WxDxH)	285x225x95	
Net Weight (kgs)	2.48kgs	2.64kgs
Alt Name	Sample Concentrator	



BFA1CD1

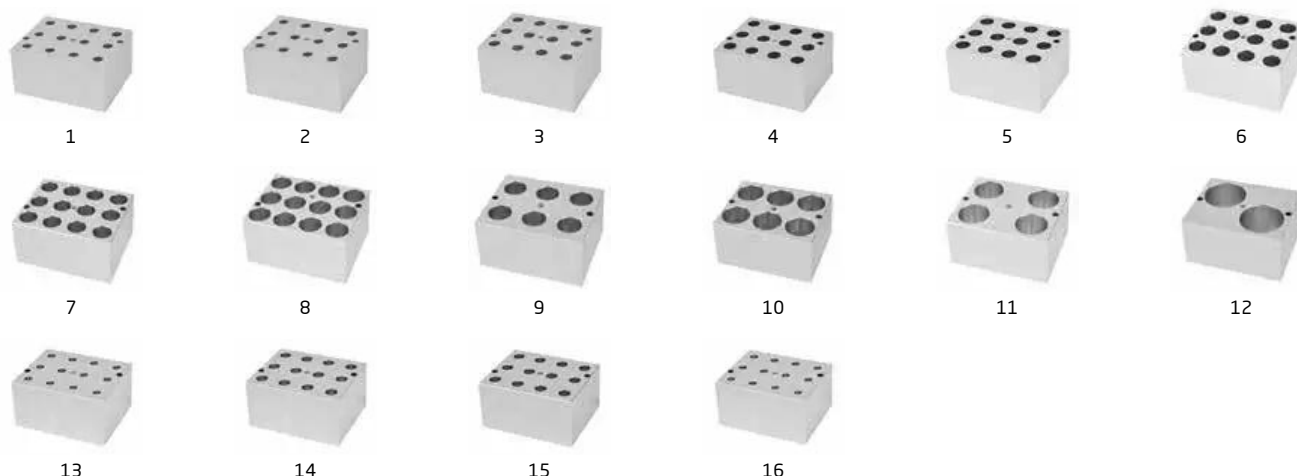


BFA1CD2

ACCESSORIES FOR PURCHASE

No	Accessories code	Spec	Dia. of Hole	Name	Block Dimension
1	DT01A	6 mm x 12	6.5 mm	Circular base	95.5 x 76.5 x 50 mm
2	DT02A	7 mm x 12	7.5 mm	Circular base	95.5 x 76.5 x 50 mm
3	DT03A	10 mm x 12	10.5 mm	Circular base	95.5 x 76.5 x 50 mm
4	DT04A	12 mm x 12	12.5 mm	Circular base	95.5 x 76.5 x 50 mm
5	DT05A	13 mm x 12	13.5 mm	Circular base	95.5 x 76.5 x 50 mm
6	DT06	15 mm x 12(7ml Centrifuge tube)	15.5 mm	Circular base	95.5 x 76.5 x 50 mm
7	DT07	16 mm x 12(10ml/15ml Centrifuge tube)	16.5 mm	Circular base	95.5 x 76.5 x 50 mm
8	DT08	19 mm x 12	19.5 mm	Circular base	95.5 x 76.5 x 50 mm
9	DT09	20 mm x 6	20.5 mm	Circular base	95.5 x 76.5 x 50 mm
10	DT10	26 mm x 6	26.5 mm	Circular base	95.5 x 76.5 x 50 mm
11	DT11	28 mm x 4(50ml Centrifuge tube)	28.5 mm	Flat bottom	95.5 x 76.5 x 50 mm

12	DT12	40 mm x 2	40.5 mm	Circular base	95.5 x 76.5 x 50 mm
13	DT13A	0.5 ml x 12	8 mm	Cone base	95.5 x 76.5 x 50 mm
14	DT14A	1.5 ml x 12	10.8 mm	Cone base	95.5 x 76.5 x 50 mm
15	DT15A	2.0 ml x 12	10.8 mm	Circular base	95.5 x 76.5 x 50 mm
16	DT16A	0.2 ml x 12	6.1 mm	Cone base	95.5 x 76.5 x 50 mm
17	DT19	Customized	Customized	Customized	Customized



FEATURES

Wide temperature control range up to 150°C.

Equipped with an air chamber and a special adjustable stand, nitrogen blowing can be achieved.

Simple or programmed temperature control mode, making the experiment more convenient.

Compact structure, easy to use in narrow spaces.

High-definition color screen display, providing an intuitive and clear visual experience.

Real-time temperature and constant temperature countdown time.

With metal blocks, samples are protected from contamination.

The metal block is easy to replace, easy to clean and sterilize.

Built-in over-temperature protection device to keep you and experiments safe.

Temperature deviation calibration, more accurate temperature control.

Fault code display function, the system has its own fault detection function.

The buzzer sound can be turned off, making the experiment quieter.

Sliding operation and touch buttons, novel and fashionable.

The height of the air chamber can be adjusted to make it suitable for different test tubes, and the standard air needle length is 150mm.

When concentrating toxic solvents, the entire system can be placed in a fume hood.

The heater causes the sample to be rapidly heated to the evaporation temperature, and at the same time, the gas is blown to the surface of the solution through the gas needle, which promotes the rapid evaporation of the solution and the concentration of the sample.

Unique patented design for air channel control system, enhances air tightness and reduces potential leakage; easy to operate, lift/press air needle to realize channel switch; the switching status of each channel is clear at a glance.

CONCENTRATOR BFA1CH1

WATER BATH CONCENTRATOR

Water Bath Sample Concentrator is mainly used for the concentration or preparation of large quantities of samples (such as drug screening, hormone analysis, liquid phase, and sample preparation in mass spectrometry analysis). Working principle: By blowing nitrogen into the surface of the heated sample, the solvent in the sample is quickly evaporated and separated, so as to achieve the purpose of oxygen-free concentration of the sample and keep the sample more pure.



Elegant appearance, with elevation operation panel, embedded flowmeter, waterproof button, safe and reliable.
Good compatibility, suitable for test tubes (diameter 10 ~ 29mm), conical flask, centrifuge tube, the sample capacity of 1 ~ 50ml.
Free up and down needle valve tube, independent adjustable needle valve, controls gas flow at each sample location
Circular turntable structure, 360-degree rotation, convenient sample support into and out of the water bath, easy to operate.
12 position, each sample position are numbered, spring tube clamp fixed position.
LED real-time displays temperature and time, water bath temperature: RT +5 °C ~ 100 °C.

SPECIFICATIONS

Model	BFA1CH1
Old Model	BCON-105
Temp. Control Range	R.T.+5°C~100°C
Temp. Setting Range	5°C~100°C
Temp. Uniformity@60°C	±1 °C
Temp. Display Accuracy	0.1 °C
Heating Speed	<30min (40°C to 100°C)
Time Range	1min~99h59min
Accommodates samples	12
Test tube range	Φ10~29mm/ Liquid volume1~50ml
Needle Plate Max. Lift Stroke	200mm
as-in Joint Outer Diameter	Φ7mm
Maximum gas pressure	0.2MPa
Maximum gas flow	15L/min
Needle Length	100mm
Inner dimension	Φ260x150mm
Voltage	AC 220V, 50/60Hz
Power	1000W
Fuse	250V, 8A, Φ5x20
Dimensions	W.390 x D.300 xH.850mm
Net Weight	9.5kgs
Alt Name	Water Bath Concentrator

FEATURES

Elegant appearance, with elevation operation panel, embedded flowmeter, waterproof button, safe and reliable.
Good compatibility, suitable for test tubes (diameter 10 ~ 29mm), conical flask, centrifuge tube, the sample capacity of 1 ~ 50ml.
Free up and down needle valve tube, independent adjustable needle valve, controls gas flow at each sample location
Circular turntable structure, 360-degree rotation, convenient sample support into and out of the water bath, easy to operate.
12 position, each sample position are numbered, spring tube clamp fixed position.

LED real-time displays temperature and time, water bath temperature: RT +5 °C ~ 100 °C.

All use of stainless steel, all components are anti-corrosion and resistant to organic solvents.

When concentrated toxic solvents, the entire system can be placed in a fume hood.

Built-in level sensor, anti-dry protection.

Suitable for a variety of test tubes, so that the gas needle is aimed at the center of the test tube, and the experimental effect is greatly improved.

APPLICATIONS

Pharmaceutical drug testing: Chinese medicine and drug testing.

Food and beverage: milk, wine, liquid beverages.

Biological analysis: serum, plasma, blood, urine.

Commodity inspection: test dioxin, croft etc.

Environmental analysis: drinking water, groundwater, polluted water, etc.

Pesticide analysis: vegetables, fruits, cereals, plant tissues, etc.

CONCENTRATOR BET1B1 TO BET1B5

VACUUM CENTRIFUGAL CONCENTRATOR

Methods & Principles:

Common methods for sample evaporation, drying, concentration and purification include:

- Distillation and rotary evaporation methods at high temperatures and under nearly atmospheric pressure, which can only process a single sample;
- The freeze-drying method under low temperature and high vacuum conditions, which is time-consuming, although sublimation can keep the sample activity;
- Fast evaporation at low temperature by means of termovap sample concentrator, which can process only a small amount of samples, with high use cost and complicated operation;
- Evaporation under vacuum conditions at room temperature by means of vacuum centrifugation concentration, where the evaporation rate of the sample solvent is higher;
- The phenomenon of evaporation is an endothermic process. When the water in a sample evaporates, it will take away the heat of the product, so that the temperature of the product will be lowered, thus maintaining the properties and activity of the sample. However, to speed up the evaporation process, the equipment used needs to provide the heat (generally through cavity heating or infrared heating) to be absorbed in the evaporation. The method is especially suitable for concentrating and purifying heat-sensitive biological samples or clinical medicines.
- The vacuum centrifugal concentrator revolves at speeds of 1500~2000r/min, which generates centrifugal force that prevents sample dispersion and flash boiling during the preparation of high-concentration samples. This can prevent cross-contamination, sample loss, denaturation, activity reduction, oxidation and other problems. The product is particularly suitable for preparing sensitive biological samples, such as nucleic acids and proteins.



Concentrator BET1B1

- The new EX UI3.0 operating system features microcomputer control, programmable operations, and direct drive by a DC variable-frequency motor for precise speed control.
- A 7" wide-angle LCD touch screen is available for digital input and easy to operate. It can display set and run parameters, as well as system data (mbar) in real time. The all-steel housing has corrosion-resistant orange peel fine grain wrinkles showing full lines, featuring an industrial human-machine design that is safe while being visually appealing and allowing for a high recognition rate.
- One-button preheating: The product is fitted with the precise temperature control technology for fast heating and accurate temperature control, thus being capable of heating the chamber temperature to 60°C, quickly reaching and maintainin

SPECIFICATIONS

Model	BET1B1	BET1B2	BET1B3	BET1B4	BET1B5
RPM	1,500r/min	2,000r/min			
Max power	1kW	2.4kW	2.5kW	0.5kW	3.5kW
Max current	5A	11A		2.5A	11A

Ambient temperature	0℃ ~ +35℃				
Temperature control range	Room temperature ~ +60℃	Room temperature ~ +60℃ (+70℃, +80℃)		-20℃~+40℃	-20℃~+80℃
Timer range	1min~23h59min59s				
Door opening/closing	Manual	Auto		Manual	Auto
Preheating	Available			Not available (pre-cooling)	
One button linkage	Not available	Available			
Final vacuum	0.1mbar				
Auto pressure release	Not available	Available			
Vacuum level display	Not available	Available		Not available	Available
Vacuum interface	Φ10mm				
Vacuum pump (recommended)	Domestic diaphragm pump/oil pump, imported oil pump/diaphragm pump				
Cold trap (recommended)	CT-6/CT-40/CT-50				
Noise	≤50dB (A)			≤60dB(A)	
Power supply	AC220V/50Hz				
Weight	21kg	42kg	55kg	70kg	90kg
Dimensions (LxWxH)	500x460x280	400x540x350	480x600x410	710x630x380	490x660x380
Alt Name	Vacuum Centrifugal Concentrator				



BET1B1 BET1B4 BET1B5



BET1B1 BET1B4 BET1B5



BET1B2



BET1B3

ACCESSORIES FOR PURCHASE BET1B1

No	Name	Description
1	Fixed-angle Rotor 62x1.5mL	Max RPM: 1,500r/min



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ACCESSORIES FOR PURCHASE BET1B2 BET1B4 BET1B5

No	Name	Description
1	Fixed-angle Rotor 62x1.5mL	Max RPM: 1,500r/min



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No	Name	Description
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1	Fixed-angle Rotor 12x10mL	Max RPM: 2,000r/min
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ACCESSORIES FOR PURCHASE BET1B3

No	Name	Description
1	Fixed-angle Rotor 62x1.5mL	Max RPM: 1,500r/min



1

No	Name	Description
1	Fixed-angle Rotor 12x10mL	Max RPM: 2,000r/min



1

No	Name	Description
1	Fixed-angle Rotor 6x50ml	Max RPM: 2,000r/min
2	Fixed-angle Rotor 6x250mL	Max RPM: 2,000r/min Compatible with 6x2x50mL/6x5x20 mL adapter



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FEATURES BET1B1 BET1B2 BET1B3

- The new EX UI3.0 operating system features microcomputer control, programmable operations, and direct drive by a DC variable-frequency motor for precise speed control.
- A 7" wide-angle LCD touch screen is available for digital input and easy to operate. It can display set and run parameters, as well as system data (mbar) in real time. The all-steel housing has corrosion-resistant orange peel fine grain wrinkles showing full lines, featuring an industrial human-machine design that is safe while being visually appealing and allowing for a high recognition rate.
- One-button preheating: The product is fitted with the precise temperature control technology for fast heating and accurate temperature control, thus being capable of heating the chamber temperature to 60°C, quickly reaching and maintaining the set temperature.
- Vacuum setting: Vacuuming starts at the set speed value, and the vacuum level can be controlled during operation within the set precision to enhance sublimation efficiency and provide safe and efficient concentration without oil explosion, foam or sample damage.
- Automatic vacuum release: When the instrument stops running or in case of power outage/shutdown, vacuum release will be

automatic to ventilate with the external environment, and slow to protect samples from excessive positive and negative pressure. After complete release, the instrument will automatically open the cover.

- The built-in organic solvent vapor pressure curve charts display the detailed vapor pressure data of different organic solvents at different temperatures, helping users understand the evaporation characteristics of organic solvents, and preventing wrong operations or safety accidents due to lack of understanding.
- The 304 stainless steel seamlessly molded centrifuge chamber has undergone Teflon heat treatment for corrosion resistance, and thus can ensure the purity of sample solvents.
- A variety of rotors are available to meet different experimental throughput needs and suitable for the centrifugal concentration to preheat samples such as nucleic acids and viruses.
- Split design: Independent accessories, free compatibility, flexibility in use.
- One-button linkage function for simpler and more convenient instrument operation.
- The polymethyl methacrylate cover plate is transparent and easy for observation, with an automatic door opening/closing design that is convenient and can prevent wrong operations caused by manual door opening/closing; in case of power outage, it can be powered by a battery to automatically open the cover plate.
- The products have built-in operation guide and early warning modules for over temperature, low pressure and emergency stop, which can help users improve efficiency, reduce the risk of wrong operations, and meet strict requirements for reliability of concentration effects.
- The products are supported by certifications including ISO9001 (2015); ISO13485 (2016); ISO14001 (2015); ISO45001 (2018); and CFDA registration and production qualification.

Economical, Efficient Vacuum Centrifugal Concentrator:

- No foaming of samples and minimal sample loss
- Simultaneous drying of multiple samples
- Sample all concentrated at the bottom of the centrifuge tube
- Suitable for drying samples of 1ml to 3,000ml
- Repeatable drying by controlling process parameters such as rotor chamber temperature (providing evaporation energy) and vacuum (auto setting of optimal pressure)
- Safe and simple solvent recovery

FEATURES BET1B4 BET1B5

The new EX UI3.0 operating system features microcomputer control, programmable operations, and direct drive by a DC variable-frequency motor for precise speed control.

A 7" wide-angle LCD touch screen is available for digital input and easy to operate. It can display set and run parameters, as well as system data (mbar) in real time. The all-steel housing has corrosion-resistant orange peel fine grain wrinkles showing full lines, featuring an industrial human-machine design that is safe while being visually appealing and allowing for a high recognition rate.

- One-button pre-cooling: The products use imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +60°C, quickly reaching the set temperature; the chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation.
- Vacuum setting: Vacuuming starts at the set speed value, and the vacuum level can be controlled during operation within the set precision to enhance sublimation efficiency and provide safe and efficient concentration without oil explosion, foam or sample damage.
- Automatic vacuum release: When the instrument stops running or in case of power outage/shutdown, vacuum release will be

automatic to ventilate with the external environment, and slow to protect samples from excessive positive and negative pressure. After complete release, the instrument will automatically open the cover.

- The built-in organic solvent vapor pressure curve charts display the detailed vapor pressure data of different organic solvents at different temperatures, helping users understand the evaporation characteristics of organic solvents, and preventing wrong operations or safety accidents due to lack of understanding.
- The 304 stainless steel seamlessly molded centrifuge chamber has undergone Teflon heat treatment for corrosion resistance, and thus can ensure the purity of sample solvents.
- A variety of rotors are available to meet different experimental throughput needs and suitable for the centrifugal concentration to preheat samples such as nucleic acids and viruses.
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Economical, Efficient Vacuum Centrifugal Concentrator:

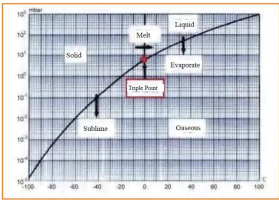
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APPLICATIONS

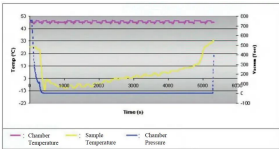
Our vacuum centrifugal concentrators are able to quickly and safely evaporate water and organic solvent in samples. The processed samples can be conveniently used for various qualitative and quantitative analyses in areas such as chemicals, biochemicals, biological analysis, immune screening, food safety, residue analysis, etc. These devices are suitable for concentration of immunoglobulins, concentration of drug metabolites, solid phase extraction (SPE), pre- and post-processing of liquid chromatography, ADMET/toxicology, polymer chemistry, DNA/RNA purification and concentration, oligomerization, forensics/drug of abuse, testing, and general lab concentration.

- DNA/RNA (the solvents are primarily water, ethanol, and methanol)
- Oligomers or peptides
- PCR products
- High-performance liquid chromatography (HPLC) products
- Synthesis and separation of organic substrates
- Storage and handling of substrates
- Concentration of protein
- Chemical composition
- High throughput screening (HTS)
- Analysis of food and environmental samples

- Toxicological identification and forensic identification
- General laboratory evaporation



Vapor Pressure Curve



Temperature Change Diagram of Centrifuge Chamber and Samples

MORE INFO

Optional rotors	Optional rotors	Optional rotors
62x0.2mL	24x5mL	8x50mL+8x10mL
102x1.5mL	18x10mL	10x50mL
204x1.5mL	20x15mL	24x8x0.2mL (8-tube strips)
12x5mL	45x15mL	2x96 holes



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