



CONCENTRATOR

CONCENTRATOR

Concentrator refers to the amount of a substance in a defined space. Concentration is especially used for concentrating or preparing sample in batches in laboratory.

Used in Drug screening, hormone analysis, liquid phase.

Also known as Laboratory Concentrator.

BCON-101 MINI SAMPLE CONCENTRATOR



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 150 mm

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

SPECIFICATIONS

Model	BCON-101
Temp. Control Range	R.T.+5°C ~100°C
Heating Speed	≤12 min (From 40 °C to 100 °C)
Temp. Accuracy (100 °C)	±0.5 °C
Temp. Accuracy(40°C)	±0.3°C
Block Quantity	1 Block
Time Range	1 sec~999 s or 1 min 0~999 min
Nitrogen Flow Rate	0~10 L/min
Nitrogen Pressure	≤0.1 Mpa
Power	60 W
Dimension (WxDxH)	W.110xD.156xH.400 mm
Net Weight	1.2 kgs

OPTIONAL ACCESSORIES

Accessory Code	Name	DESCRIPTION
3900606006	Block	6 x Φ15mm
3900606007	Block	6 x Φ16mm
3900606008	customized	customized

BCON-102 96-GAS-NEEDLES SAMPLE CONCENTRATOR



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 80 mm

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

SPECIFICATIONS

Model	BCON-102
Temp. Control Range	R.T.+5°C ~100°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	≤30 min (40 °C to 150 °C)
Time Range	1 min ~99 h 59 min
Air cavity Max. Lift Stroke	275 mm
Gas-in Joint Outer Diameter	Φ7 mm
Nitrogen Pressure	≤0.1 MPa
Nitrogen Flow Rate	0~10 L/min
Needle Length	80 mm
Sample Capacity	1 standard plate block
Voltage	AC 220 V/AC 110 V, 50/60 Hz
Power	400 W
Fuse	250 V, 2 A / 3 A, Φ5 x 20
Dimension (WxDxH)	W.220xD.260xH.445 mm
Net Weight	5.5 kgs

OPTIONAL ACCESSORIES

Accessory Code	Name	Suitable Concentrator	Description	Dimension
3900607006	Block 17	NDK200-1A	0.2ml x 96 PCR plate	78x114x26 mm
3900607007	Block 18	NDK200-1A	flat bottom plate block	81x123x19 mm

100 CONCENTRATOR



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

LED displays immediate temperature and diminis-"C; i Operation is simple and convenient

Built in overheat protection, automatic fault detection an alarm devices

The entire equipment can be put into ventilation cabin concentration sample is in toxic solvents

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

Unique patented design for air channel control system, enhances air tightness and reduces potential leakage; easy to operate air needle to realize channel switch; the switching stat

channel is clear at a glance

SPECIFICATIONS

Model	BCON-103	BCON-104	BCON-106
Temp. Control Range	R.T.+5°C ~100°C		
Temp. Setting Range	5 °C ~ 150 °C		
Temp. Stability @ 40 ~100 °C	±0.5 °C		± 0.5 °C
Temp. Stability @ 100~150 °C	±1 °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	≤30 min (40 °C to 150 °C)		
Time Range	1 min ~99 h 59 min	1min ~99 h 59 min	1 min ~99 h 59 min
Needle Plate Max. Lift Stroke	285 mm		
Gas-in Joint Outer Diameter	Φ7 mm		
Nitrogen Pressure	≤0.1 MPa		
Nitrogen Flow Rate	0~10 L/min		
Needle Length	150 mm		
Sample Capacity	1 standard block	1 Standard Visible Block	2 standard block
Voltage	AC 220 V/AC 110 V, 50/60 Hz		
Power	200 W	400 W	200 W
Fuse	250 V, 2 A / 3 A, Φ5 x 20		
Dimension (WxDxH)	W.200xD.230xH.525 mm	W.220xD.260xH.525 mm	200x230x525 mm
Net Weight	5.1 kgs	5.8 kgs	5.1 kgs

OPTIONAL ACCESSORIES

Accessory Code	Name	DESCRIPTION	SUITABLE GAS CHAMBER TYPE	Block dimension	For Models
3900608006	Block	6 mm x 12	NDK200-1N: 12-needle		BCON-103
3900608007	Block	7 mm x 12	NDK200-1N: 12-needle		BCON-103
3900608008	Block	10 mm x 12	NDK200-1N: 12-needle		BCON-103
3900608009	Block	12mm x 12	NDK200-1N: 12-needle		BCON-103
3900608010	Block	13 mm x 12	NDK200-1N: 12-needle		BCON-103

3900608011	Block	15mm x 12	NDK200-1N: 12-needle		BCON-103
3900608012	Block	16mm x 12	NDK200-1N: 12-needle		BCON-103
3900608013	Block	19mm x 12	NDK200-1N: 12-needle		BCON-103
3900608014	Block	20mm x 6	NDK200-1N: 6-needle		BCON-103
3900608015	Block	26mm x 6	NDK200-1N: 6-needle		BCON-103
3900608016	Block	28mm x 4	NDK200-1N: 4-needle		BCON-103
3900608017	Block	40mm x 2	NDK200-1N: 2-needle		BCON-103
3900608018	Block	0.5ml tube x 12	NDK200-1N: 12-needle		BCON-103
3900608019	Block	1.5ml tube x 12	NDK200-1N: 12-needle		BCON-103
3900608020	Block	2.0ml tube x 12	NDK200-1N: 12-needle		BCON-103
3900608021	Block	0.2ml tube x 12	NDK200-1N: 12-needle		BCON-103
3900608022	Block	customized	customized		BCON-103
3900609006	Block	10 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609007	Block	12 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609008	Block	13 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609009	Block	15 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609010	Block	16 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609011	Block	19 mm x 12		153.5 x 96 x 49mm	BCON-104
3900609012	Block	20 mm x 12		153.5 x 96 x 49mm	BCON-104
3900611006	Block	6 mm x 12	NDK200-1N: 12-needle		BCON-106
3900611007	Block	7 mm x 12	NDK200-1N: 12-needle		BCON-106
3900611008	Block	10 mm x 12	NDK200-1N: 12-needle		BCON-106
3900611009	Block	12mm x 12	NDK200-1N: 12-needle		BCON-106
3900611010	Block	13 mm x 12	NDK200-1N: 12-needle		BCON-106
3900611011	Block	15mm x 12	NDK200-1N: 12-needle		BCON-106
3900611012	Block	16mm x 12	NDK200-1N: 12-needle		BCON-106
3900611013	Block	19mm x 12	NDK200-1N: 12-needle		BCON-106
3900611014	Block	20mm x 6	NDK200-1N: 6-needle		BCON-106
3900611015	Block	26mm x 6	NDK200-1N: 6-needle		BCON-106
3900611016	Block	28mm x 4	NDK200-1N: 4-needle		BCON-106
3900611017	Block	40mm x 2	NDK200-1N: 2-needle		BCON-106
3900611018	Block	0.5ml tube x 12	NDK200-1N: 12-needle		BCON-106
3900611019	Block	1.5ml tube x 12	NDK200-1N: 12-needle		BCON-106
3900611020	Block	2.0ml tube x 12	NDK200-1N: 12-needle		BCON-106
3900611021	Block	0.2ml tube x 12	NDK200-1N: 12-needle		BCON-106
3900611022	Block	customized	customized		BCON-106



BCON-103



BCON-104



BCON-106

BCON-105 WATER BATH CONCENTRATOR



Elegant appearance, with elevation operation pane', 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 <r. l 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 tu x position

LED real-time displays temperature and time, water bath

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 great

SPECIFICATIONS

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	≤30 min(40 °C to 100 °C)
Time Range	1 min~99 h 59 min
Accommodates Sample	12
Test tube range	Φ10~29 mm/ Liquid volume1~50 ml
Needle Plate Max. Lift Stroke	200 mm
as-in Joint Outer Diameter	Φ7 mm
Maximum gas pressure	0.2 MPa
Maximum gas flow	15 L/min
Needle Length	100 mm
Inner dimension	260 x 150 mm
Voltage	AC 220 V, 50/60 Hz
Power	1000 W
Fuse	250V, 8A, Φ5 x 20
Dimension (WxDxH)	W.390xD.300xH.850 mm
Net Weight	9.5 kgs

BCON-107 SAMPLE CONCENTRATOR



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 150 mm

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

SPECIFICATIONS

Model	BCON-107
Temp. Control Range	R.T.+5°C ~100°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	± 0.3 °C
Block Temp. Uniformity @ 150 °C	± 0.5 °C
Temp. Display Accuracy	0.1 °C
Heating Speed	≤ 30 min (40 °C to 150 °C)
Time Range	1 min ~99 h 59 min
Needle Plate Max. Lift Stroke	285 mm
Gas-in Joint Outer Diameter	Φ7 mm
Nitrogen Pressure	≤0.1 MPa
Nitrogen Flow Rate	0~10 L/min
Needle Length	150 mm
Sample Capacity	1 standard block
Voltage	AC 22 0V/AC 110 V 50 Hz/60 Hz
Fuse	250 V, 2 A /3 A, Φ 5 × 20

Dimension(W × D × H)	285 × 225 × 95
Net Weight (kgs)	2.48 kgs
Power	200 W

BCON-108 SAMPLE CONCENTRATOR



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

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sample

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SPECIFICATIONS

Model	BCON-108
Temp. Control Range	R.T.+5°C ~100°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	± 0.3 °C
Block Temp. Uniformity @ 150 °C	± 0.5 °C
Temp. Display Accuracy	0.1 °C
Heating Speed	≤ 30 min (40 °C to 150 °C)
Time Range	1 min ~99 h 59 min
Needle Plate Max. Lift Stroke	286 mm
Gas-in Joint Outer Diameter	Φ7 mm
Nitrogen Pressure	≤0.1 MPa
Nitrogen Flow Rate	0~10 L/min

Needle Length	150 mm
Sample Capacity	2 standard block
Voltage	AC 220 V/AC 110 V 50 Hz/60 Hz
Fuse	250 V, 3 A /6 A, Φ 5 × 20
Dimension(W × D × H)	285 × 225 × 95
Net Weight (kgs)	2.64 kgs
Power	400 W

BCON-109 SAMPLE CONCENTRATOR



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 150 mm

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

SPECIFICATIONS

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	≤ 30 min (40 °C to 150 °C)
Time Range	1 min ~99 h 59 min
Needle Plate Max. Lift Stroke	285 mm
Gas-in Joint Outer Diameter	Φ 7 mm
Nitrogen Pressure	≤0.1 MPa
Nitrogen Flow Rate	0~10 L/min
Needle Length	150 mm
Sample Capacity	1 standard block
Voltage	AC 220 V / AC 110 V, 50/60 Hz
Fuse	250 V, 3 A/6 A, Φ 5 × 20
Dimension(W × D × H)	W.220 × D.260 × H.525 mm
Net Weight (kgs)	5.8 kgs
Power	400 W



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