

# 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.

## CON14-MS 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 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 deep alarm devices.

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

Standard configured air cavity and adjustable bracket.



## SPECIFICATIONS

Model	CON14-MS
Temp. Control 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	1 Block
Time Range	1sec~999s or 1min0~999min
Nitrogen Pressure	≤0.1 Mpa
Nitrogen Flow Rate	0~10L/min
Power	60 W
Dimension(LxWxH)	156x110x400 mm
Net Weight	1.2 kg

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
LS52323	Swing-out Rotor – Adapter	4x250 ml
LS52336	Swing-out Rotor – Adapter	4x100 ml

## CON13-96 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 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	CON13-96
Temp. Control Range	R.T.+5°C~150°C
Temp. Setting Range	5°C~150°C
Temp. Display Accuracy	0.1°C
Heating Speed	≤30min(40°Cto150°C)
Time Range	1min~99h59min
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
Air Cavity Max. Lift Stroke	275 mm

### OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
LS52297	Swing-out Bucket Rotor	Blood collection tube	64x2-7 ml
LS52310	Swing-out Rotor – Adapter	60x1.5/2.0 ml	

## CON15-SC SAMPLE CONCENTRATOR

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.



## SPECIFICATIONS

Model	CON15-SC
Temp. Control Range	R.T.+5°C~150°C
Temp. Setting Range	5°C~150°C
Temp. Display Accuracy	0.1°C
Heating Speed	≤30min(40°Cto150°C)
Time Range	1min~99h59min
Needle Plate Max. Lift Stroke	285 mm
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
Gas-In Joint Outer Dimension	Φ7 mm
Nitrogen Pressure	≤0.1 Mpa
Nitrogen Flow Rate	0~10L/min
Needle Length	150 mm
Sample Capacity	1 Standard Block
Voltage	AC 220V/AC 110 V, 50/60 Hz
Power	200 W
Fuse Protector	230x200x525 mm
Dimension(LxWxH)	W.200xD.230xH.525 mm
Net Weight	5.1 kg

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
LS52349	Swing-out Rotor – Adapter	12x50 ml	
LS52362	Swing-out Rotor – Adapter	36x15 ml	
LS52375	Swing-out Rotor – Adapter	Blood collection tube	56x8/10 ml blood collection tube
LS52388	Swing-out Rotor – Adapter	Blood collection tube	72x2-7 ml blood collection tube
LS52401	Swing-out Rotor – Adapter	Falcon conical bottle	4x175/225 ml Falcon conical bottle
LS52414	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	
LS52427	Swing-out Rotor – Adapter	16x50 ml	
LS52440	Swing-out Rotor – Adapter	40x15 ml	
LS52453	Swing-out Rotor – Adapter	100x1.5/2.0 ml	
LS52466	Swing-out Rotor – Adapter	Blood collection tube	80x8/10 ml
LS52479	Swing-out Rotor – Adapter	Blood collection tube	112x2-7 ml
LS52492	Swing-out Bucket Rotor	Radio-immunity tube	148x5 ml
LS52505	Swing-out Bucket Rotor	Blood collection tube	96x2-7ml
LS52518	Swing-out Bucket Rotor	4x3 96 well microplates or 4x2 cell culture plates or 4x1 deep well plates	
LS52531	Swing-out Rotor	4x750 ml	
LS52544	Swing-out Rotor – Adapter	108x1.5/2.0 ml	
LS52557	Swing-out Rotor – Adapter	12x100 ml	

# CON12-NI NITROGEN 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 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.

Standard configured air cavity and adjustable bracket.



## SPECIFICATIONS

Model	CON12-NI
Temp. Control Range	R.T.+5°C~150°C
Temp. Setting Range	5°C~150°C
Heating Speed	≤30min(40°Cto150°C)
Temp. Accuracy (100°C)	0.1°C
Time Range	1min~99h59min
Needle Plate Max. Lift Stroke	285 mm
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
Gas-In Joint Outer Dimension	Φ7 mm
Nitrogen Pressure	≤0.1 Mpa
Nitrogen Flow Rate	0~10L/min
Needle Length	150 mm
Sample Capacity	1 Standard Visible Block
Voltage	AC 220V/AC 110V, 50/60 Hz
Power	400 W
Fuse Protector	260x220x525 mm
Dimension(LxWxH)	W.220xD.260xH.525 mm
Net Weight	5.8 kg

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
LS52206	Swing-out Rotor – Adapter	Blood collection tube	28x8/10 ml
LS52219	Swing-out Rotor – Adapter	Blood collection tube	40x2-7 ml
LS52232	Swing-out Bucket Rotor	Falcon conical bottle	4x175/225 ml
LS52245	Swing-out Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	
LS52258	Swing-out Bucket Rotor	Blood collection tube	28x2-7 ml

LS52271	Swing-out Bucket Rotor	Blood collection tube	36x8/10 ml
LS52284	Swing-out Bucket Rotor	Blood collection tube	48x2-7 ml

## CON11-WB WATER BATH CONCENTRATOR

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.



### SPECIFICATIONS

Model	CON11-WB
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°Cto100°C)
Time Range	1min~99h59min
Accommodates Samples	12†
Test Tube Range	Φ10~29 mm/Liquid volume 1~50 ml
Needle Plate Max. Lift Stroke	200 mm



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