

# NDK200-1N/2N Sample Concentrator

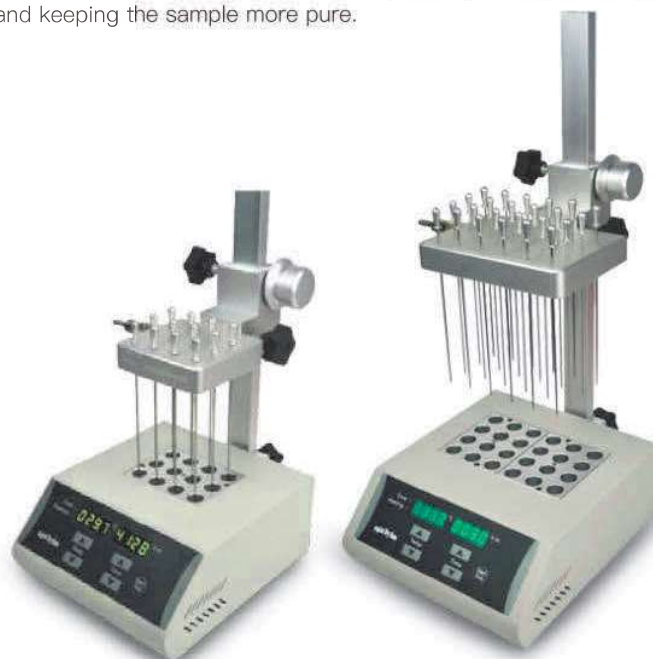
## Concentrator Series

### Introduction

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.

### Feature

1. The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.
2. LED displays immediate temperature and diminishing time. Operation is simple and convenient.
3. Built in overheat protection, automatic fault detection and fault beep alarm devices.
4. The entire equipment can be put into ventilation cabinet when the concentration sample is in toxic solvents.
5. Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.
6. 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.
7. Standard configured air cavity and adjustable bracket.



NDK200-1N

NDK200-2N

### Parameter

Model	NDK200-1N	NDK200-2N
Temp. Control Range	R.T.+5°C ~150°C	R.T.+5°C~150°C
Temp. Setting Range	5°C ~150°C	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	±0.5°C
Block Temp. Uniformity@150°C	±1 °C	±1 °C
Temp. Display Accuracy	0.1°C	0.1°C
Heating Speed	≤30min (40°C to 150°C)	≤30min (40°C to 150°C)
Time Range	1min ~99h59min	1min~99h59min
Needle Plate Max. Lift Stroke	285mm	285mm
Gas-in Joint Outer Diameter	Φ7mm	Φ7mm
Nitrogen Pressure	≤0.1MPa	≤0.1MPa
Nitrogen Flow Rate	0~10L/min	0 ~10L/min
Needle Length	150mm	150mm
Sample Capacity	1 standard block	2 standard block
Voltage	AC 220V / AC 110V, 50/60Hz	AC 220V / AC 110V, 50/60Hz
Power	200W	400W
Fuse	250V, 2A/3A, Φ5×20	250V, 3A/6A, Φ5×20
Dimension	W.200 x D.230 x H.525mm	W.200 x D.260 x H.525mm
Net Weight	5.1kgs	6.1kgs

## Accessories



DT01A



DT02A



DT03A



DT04A



DT05A



DT06



DT07



DT08



DT09



DT10



DT11



DT12



DT13A



DT14A



DT15A



DT16A



NDK-GV  
Gas Control Valve

## Notice

Flow control valve is optional.

While choose blocks for NDK200-2N, choose two blocks with the same hole quantity.

DT01A、DT02A、DT16A needs to be customized in advance.

## Accessories Parameter

Cat#	Spec	Dia. of hole	Hole bottom shape	Block dimension
DT01A	6 mm x 12	6.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT02A	7 mm x 12	7.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT03A	10 mm x 12	10.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT04A	12 mm x 12	12.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT05A	13 mm x 12	13.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT06	15 mm x 12(7ml tube)	15.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT07	16 mm x 12(10ml/15ml tube)	16.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT08	19 mm x 12	19.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT09	20 mm x 6	20.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT10	26 mm x 6	26.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT11	28 mm x 4(50ml tube)	28.5 mm	Flat bottom	95.5 x 76.5 x 50 mm
DT12	40 mm x 2	40.5 mm	Round bottom	95.5 x 76.5 x 50 mm
DT13A	0.5 ml x 12	8 mm	Cone bottom	95.5 x 76.5 x 50 mm
DT14A	1.5 ml x 12	10.8 mm	Cone bottom	95.5 x 76.5 x 50 mm
DT15A	2.0 ml x 12	10.8 mm	Round bottom	95.5 x 76.5 x 50 mm
DT16A	0.2 ml x 12	6.1 mm	Cone bottom	95.5 x 76.5 x 50 mm
DT19	Customized	Customized	Customized	Customized

# NK200-1B Sample Concentrator (visible)

## Concentrator Series

### Introduction

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.

### Feature

1. Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.
2. The length of a standard gas needle is 150mm.
3. The height of the air chamber plate can be adjusted. The unique characteristics: Sample surface in the tube can be observed while concentrating.
4. Gas needle is controlled independently. Separately blow of each needle and flow regulating of each needle are available to avoid gas waste.
5. The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.
6. Built in overheat protection, automatic fault detection and fault beep alarm devices.
7. LED displays immediate temperature and diminishing time. Operation is simple and convenient.
8. Standard configured air cavity and adjustable bracket.

### Parameter

Model	NK200-1B
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 Protector	250V, 3A/6A, Φ5×20
Dimension (WxDxH)	W.220×D.260×H.525mm
Net Weight	5.8kgs



## Accessories



NK01



NK02



NK03



NK04



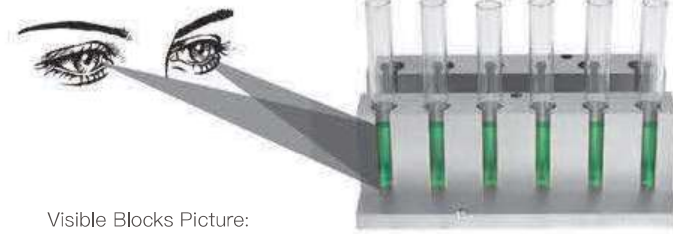
NK05



NK06



NK07



Visible Blocks Picture:

## Notice

Optional blocks from NK01—NK07. Blocks can be interchanged easily. Commonly used configuration NK05 block.

## Accessories Parameter

Cat#	Spec	Dia. of hole	Hole bottom shape	Block dimension
NK01	10 mm x 12	10.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK02	12 mm x 12	12.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK03	13 mm x 12	13.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK04	15 mm x 12(7ml tube)	15.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK05	16 mm x 12(10ml/15ml tube)	16.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK06	19 mm x 12	19.5 mm	Round bottom	153.5 x 95.5 x 50 mm
NK07	20 mm x 12	20.5 mm	Round bottom	153.5 x 95.5 x 50 mm

# NDK200-1A Sample Concentrator (96-gas-needles)

## Concentrator Series

### Introduction

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.

### Feature

1. 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.
2. The height of the air cavity can be adjusted. The length of a standard gas needle is 80mm.
3. The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.
4. Built in overheat protection, automatic fault detection and fault beep alarm devices.
5. LED displays immediate temperature and diminishing time. Operation is simple and

### Accessories



DT17



DT18



NDK-GV  
Gas Control Valve



Cat#	Spec	Dia. of hole	Hole bottom shape	Block dimension
DT17	0.2ml x96	6.7mm	Cone bottom	95.5 x 153.5 x 33.5mm
DT18	Flat bottom plates	Top size 76x 116 x 4mm	Flat plate block	95.5 x 153.5 x 22.5mm

Notice: User can choose any block from DT17 or DT18 and block can be changed easily. Optional flow regulating valve.

### Parameter

Model	NDK200-1A	Gas-in Joint Outer Diameter	Φ7mm
Temp. Control Range	R.T.+5°C~150°C	Nitrogen Pressure	≤0.1MPa
Temp. Setting Range	5°C~150°C	Nitrogen Flow Rate	0 ~10L/min
Temp. Stability@40~100°C	±0.5 °C	Needle Length	80mm
Temp. Stability@100~150°C	±1 °C	Sample Capacity	1 Standard Plate Block
Block Temp. Uniformity@100°C	±0.5 °C	Voltage	AC 220V/AC 110V, 50/60Hz
Block Temp. Uniformity@150°C	±1 °C	Power	400W
Temp. Display Accuracy	0.1 °C	Fuse	250V, 3A/6A, Φ5×20
Heating Speed	≤30min (40°C to 150°C)	Dimension (WxDxH)	W.220 x D.260 x H.445mm
Time Range	1min ~99h59min	Net Weight	5.5kgs
Air cavity Max. Lift Stroke	275mm		

# MINI-100N MINI Sample Concentrator

## Concentrator Series

### Introduction

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.

### Feature

1. 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.
2. 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.
3. The height of the air chamber plate can be adjusted. The length of a standard gas needle is 150mm.
4. Separately blow of 6 needles and flow regulating of each needle are available to avoid gas waste.
5. The entire equipment can be put into ventilation cabinet when the concentration sample in toxic solvents.
6. Built in overheat protection, automatic fault detection and fault beep alarm devices.
7. LED displays immediate temperature and diminishing time. Operation is simple and convenient.
8. Standard configured air cavity and adjustable bracket.

### Accessories



MiniP-C



MiniP-D

Cat#	Tube Quantity & Dia.of hole
MiniP-C	6 x $\phi$ 15mm
MiniP-D	6 x $\phi$ 16mm
MiniP-F	Customized

Blocks can be optional and exchanged.  
Optional flow regulating valve.

NDK-GV

Flow regulating valve  
Optional



### Parameter

Model	MINI-100N
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