

We Promised: _____

- ◎ We provide a product warranty period up to 24 months.
- ◎ We supply regular follow-up services and answer any questions or concerns you may have during the usage process.
- ◎ We provide free ongoing maintenance and system upgrade services for the products already sold.
- ◎ We provide a dedicated 400 service hotline to offer advice and technical support to you at all times.

As a manufacturer of vacuum centrifugal concentration systems with rich experience, we adhere to the concept of common development with customers, take customer needs as the goal, and provide customers with professional pre-sales support and after-sales services during the process.

Beijing JM Technology Co., Ltd.

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The company reserves the final interpretation right of the product's technical parameters. Second Edition, 2024.



Wechat



Website

FOCUS ON VACUUM CONCENTRATION SOLUTIONS



Vacuum Concentrator Series

Comprehensive Brochure

Hotline: 400-8030-186

Company Introduction

Beijing JM Technology Co., Ltd. is a comprehensive technology enterprise integrating R&D, manufacturing, sales and service, with vacuum concentration solutions as its core. As a member of the high-tech and advanced manufacturing industries, our company has strong technical development and technical support capabilities, and has a complete product testing method and quality assurance system.

JM upholds the business philosophy of "Quality as the foundation, products as the carrier, market-oriented, and customer-centric." We strive to provide comprehensive and meticulous after-sales service and aim to create higher value for our customers.

The company specializes in the production of vacuum centrifugal concentrators, low-temperature cold traps, solvent evaporation systems and fully automated centrifugal concentration products. Among them, the independently developed refrigerated centrifugal concentrator CV600 has filled the gap in the domestic market, and its product performance has reached international standards. The Auto series vacuum centrifugal concentrator is a new generation product that the company has invested heavily in research and development. It has significantly improved concentration efficiency, sample uniformity and overall machine performance. Among them, the customized fully automated centrifugal concentrator has become the benchmark of centrifugal concentrator automation technology and can be integrated into many devices to build a laboratory automation system.

The company has won unanimous recognition from customers for its efficient and stable performance, and its products have been widely used in scientific research institutes, government, tertiary hospitals, universities and enterprises, etc. In order to improve service efficiency, the company has set up offices in Guangzhou, Shanghai, Nanjing, Wuhan, Chengdu, Shenyang, Lanzhou, Zhengzhou and other places, focusing on localized services, improving response speed, and providing customers with comprehensive technical support and high-quality after-sales service.

JM will deeply implement the new development concept of continuous innovation, striving for progress, optimizing product structure, and improving service abilities. We are committed to becoming a vacuum concentration equipment manufacturer and supplier with international competitiveness.



Service Map





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Technology & Application

Advantages of vacuum centrifugal concentration technology

Low temperature concentration: avoid sample loss, denaturation, activity loss and oxidation.

Less loss: The sample does not produce foam, less loss and high yield.

High throughput: processing tens to hundreds of samples simultaneously without cross-contamination.

Safe and simple: one-button operation, safe and convenient, avoiding misoperations.

Vacuum Centrifugal Concentrator Working Principle

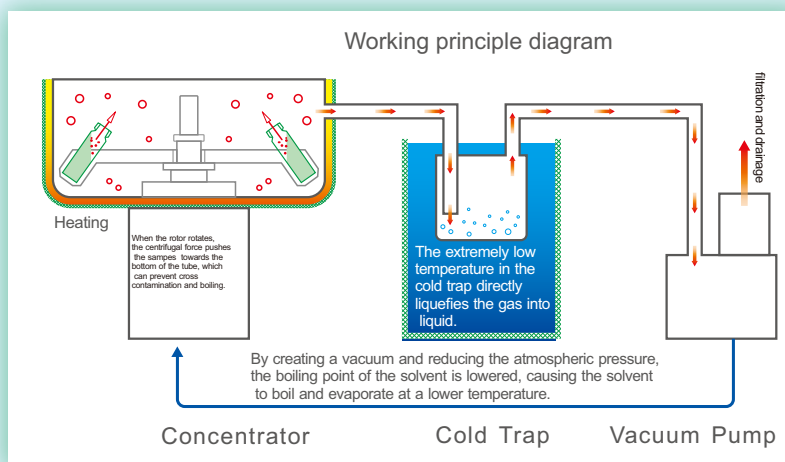
Centrifugal concentration is a process of evaporating solvents to concentrate or dry biological (non-biological) samples. The samples after centrifugal concentration can be conveniently used for various qualitative and quantitative analyses, such as: chemistry, biochemistry, biological analysis, immunological screening, food safety, and residue analysis.

Principle of Vacuum Centrifugal Concentrator: When the pressure decreases, the boiling point of the solvent also lowers accordingly. When the pressure drops sufficiently low, the solvent begins to boil and evaporate.

The vacuum pump makes the centrifugal chamber of the concentrator in a vacuum state, which reduces the boiling point of the solvent and speeds up its evaporation. At the same time, the sample is always evaporated at a low temperature, effectively preventing the inactivation of heat-sensitive samples.

The concentrator adopts electromagnetic drive centrifugal system to ensure that the sample will not be ejected in the sample tube, avoiding boiling and cross contamination of the sample. The centrifugal chamber is equipped with a temperature control device to compensate for the energy consumed during evaporation and ensure safe and efficient concentration of the sample.

The low temperature cold trap is an efficient solvent recovery device that can condense solvent vapors quickly before they reach the vacuum pump. This protects the vacuum pump from corrosion caused by solvent vapors. Additionally, the reduction in vapors enhances the vacuum level of the system, thereby avoiding cross contamination of samples and improving the efficiency of the vacuum concentration system.



Application

RNA/DNA Research

Oligomers and peptides

ADMET

Clinical diagnostics

HPLC

Synthesis and Separation of Organic Substrates

Protein crystallization for structural studies

Medicinal Chemistry Optimization

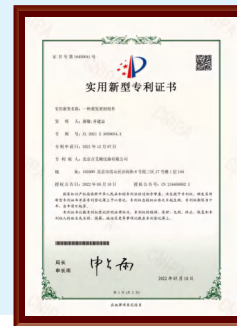
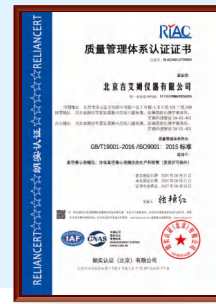
Drug analysis

Toxicology, forensic identification

SPE

General Laboratory Concentration

Qualification & Honor



Cooperative Partner

Colleges and universities



Research institutions



Enterprises



Hospitals



Fully Automated Centrifugal Concentrator Auto C1 / Auto C2

Customized
Support

JM specializes in R&D and manufacturing of vacuum centrifugal concentrators.

Since the advent of automated centrifugal concentrators, JM has become the benchmark for centrifugal concentrators in automation technology. Our equipment can be integrated into many devices which exist in market, enabling the construction of laboratory automation systems.



Modular design



Remote control



Precise control
of origin point



IoT function



High-Precision
Positioning



Horizontal Rotor
Design



Basket
Preheating



Corrosion-resistant
Design



Accessories

Cold Trap



Low-temperature
cold trap
JM50-Plus(-60°C)



Ultra-low temperature
cold trap
JM80(-80°C)



Ultra-low temperature
cold trap
JM105(-105°C)

Vacuum Pump



Chemical Resistant solvent
vacuum pump 490



Scroll dry vacuum pump 440

Product Features

- **Modular Design:** concentrator, cold trap and vacuum pump are independent units that can be freely assembled.
- **Remote Control via Host Computer:** Supports Modbus TCP communication protocol for sending control commands, receiving execution results and data.
- **Internet of Things (IoT) Functionality:** Can connect to WiFi for remote operation.
- Open connector allows for remote control via the host computer.
- Lid opening can be done vertically or horizontally.
- **Precise Origin Location Control:** The rotor can switch between A/ B sides, convenient for robotic arm operations.
- **High-Precision Positioning System:** Positioning error is less than 1mm.
- Horizontal Rotor Design: Can accommodate 2 pcs 96-holes deep well plates or sample bottle for concentration.
- **Basket Preheating Program:** Accelerates the concentration speed.
- **Corrosion-Resistant Design:** No fear of organic solvents.



Technical Parameters

Model	Auto C1	Auto C2
Lid Opening Method	Vertical Opening	Horizontal Opening
Maximum speed	1500rpm	1500rpm
Vacuum display range	0.1~99.9mbar	0.1~99.9mbar
Machine overlay design	Yes	No
Temperature control range	RT~+70℃	RT~+80℃
Temperature control accuracy	±1℃	±1℃
Vacuum control function	Yes	Yes
Noise	≤60dB(A)	≤60dB(A)
Power	1500w	1700w
Voltage	AC220V 50Hz/60Hz 10A	AC220V50Hz/60Hz 10A
Size (L*D*H)	657×518×465mm	522×500×653mm

Vacuum Centrifugal Concentrator Auto R1



Small volume & large capacity

180 pcs 1.5/2.0ml samples
concentration each time.



Vacuum control system

Original from Germany
more stably, precise and efficient.



New electromagnetic drive system

High torque, low vibration,
corrosion-resistant.



Corrosion-resistant design

Resistant to organic solvents.



Accessories

Cold Trap



Low-temperature
cold trap
JM50-Plus(-60°C)



Ultra-low temperature
cold trap
JM80(-80°C)



Ultra-low temperature
cold trap
JM105(-105°C)

Vacuum Pump



Corrosion-resistant
diaphragm pump 410



Vacuum oil pump
430



Scroll dry vacuum pump
440



Imported diaphragm
pump 460



Imported diaphragm
pump 470



Corrosion-resistant
diaphragm pump 480

Product Features

- It is suitable for proteomics, genomics, molecular biology and natural product research.
- JM-fast control system which is more intelligent, precise and efficient.
- Standard equipped with a fully automatic vacuum control system, with a control range of 0.1~100mbar.
- The new electromagnetic drive system features a dual rotor overlapping design, offering large capacity, high efficiency and low vibration.
- The two-stage temperature control design effectively protects sample safety.
- There are 4 sets of quick program buttons and 30 sets of user stored programs.
- The centrifugal imaging function allows for continuous observation of the sample concentration progress without stopping the operation.

Technical Parameters

Speed range	800rpm~2000rpm	Ultimate vacuum value	≤0.2mbar
Maximum centrifugal force	530×g	Noise	≤ 55dB(A)
Time range	1~9999min	Power	1100W
Vacuum control range	0.1~100mbar	Voltage	AC220V 50Hz/60Hz 10A
Centrifugal imaging function	Yes	Size (L*D*H)	481×370×294mm
Temperature control range	RT+5℃~+100℃	Weight	28.5KG
Temperature control accuracy	±1℃		

Accessories

Rotor



Refrigerated Centrifugal Concentrator

Auto R1-Plus

Refrigerated
Concentration



Small volume & large capacity

180 pcs 1.5/2.0ml samples
concentration each time.



Vacuum control system

Original from Germany
more stably, precise and efficient.



New electromagnetic drive system

High torque, low vibration,
corrosion-resistant.



Corrosion-resistant design

Resistant to organic solvents.



Accessories

Cold Trap



Low-temperature
cold trap
JM50-Plus(-60℃)



Low-temperature
cold trap
JM60-Plus(-60℃)



Ultra-low
temperature
cold trap
JM80(-80℃)



Ultra-low
temperature
cold trap
JM105(-105℃)

Vacuum Pump



Corrosion-resistant
diaphragm pump 480



Vacuum oil pump
430



Scroll dry vacuum pump
440



Imported diaphragm
pump 460



Imported diaphragm
pump 470



Organic solvent-resistant
oil pump 490

Product Features

- JM-fast control system which is more intelligent, precise and efficient.
- Low temperature concentration which is more suitable for sensitive samples.
- Fully automatic vacuum control system inside ,with a control range of 0.1~100mbar and control precision of ± 0.1 mbar.
- Automatically releases vacuum pressure through an imported pressure relief valve, making operation simple and safe. It also features an automatic switch function.
- Two stage temperature control design to ensure sample safety.
- 4 sets of program shortcut keys and 30 sets of user stored programs.
- Centrifugal imaging function enables continuous observation of sample concentration progress without stopping the operation.
- A wide range of accessories which including more than 20 different rotors to meet various experimental requirements.

Technical Parameters

Speed range	800rpm~2000rpm	Temperature control accuracy	$\pm 1^{\circ}\text{C}$
Maximum centrifugal force	530 $\times$ g	Ultimate vacuum value	≤ 0.2 mbar
Time range	1~9999min	Noise	≤ 60 dB(A)
Vacuum control range	0.1~100mbar	Power	1200W
Sample chamber pre-cooling function	Yes	Voltage	AC220V 50Hz/60Hz 10A
Centrifugal imaging function	Yes	Size (L*D*H)	608 $\times$ 370 $\times$ 348mm
Temperature control range	-5 $^{\circ}\text{C}$ ~+100 $^{\circ}\text{C}$	Weight	48.6KG

Accessories

Rotor



Acid-Resistant Centrifugal Concentrator

Auto R2 / Auto R2-Plus

Room temperature type

Refrigerated type



Whole Machine Corrosion-Resistant treatment

Ultra strong acid-resistant design.



Small volume & large capacity

Dual rotor stacking design.



Wide range of accessories

More than 20 rotor for optional.



JM-fast control system

Intelligent, Precise and efficient.



Accessories

Cold Trap



Low-temperature
cold trap
JM50(-50°C)



Low-temperature
cold trap
JM50-Plus(-60°C)

Vacuum Pump



Import diaphragm
pump 450



Imported diaphragm
pump 460



Imported diaphragm
pump 470



Corrosion-resistant
diaphragm pump 480

Product Features

- The whole machine system is acid-resistant and resistant to organic solvent.
- Glass cover and electronic door locks are safer.
- Enhanced PTFE coating technology.
- Waste liquid recycle bottle made of high borosilicate glass.
- JM-fast control system which is more intelligent, precise and efficient.
- New electromagnetic drive system, dual rotor overlapping design, large capacity, high efficiency and low vibration.
- Two stage temperature control design, effectively protects sample safety.
- 4 sets of program quick keys, 30 sets of user stored programs.



Glass trap 1500ml

Technical Parameters

Model	Auto R2 Room temperature Type	Auto R2-Plus Refrigerated Type
Speed range	800rpm~2000rpm	800rpm~2000rpm
Maximum centrifugal force	530×g	530×g
Time range	1~9999min	1~9999min
Sample chamber pre-cooling function	No	Yes
Centrifugal imaging function	Yes	Yes
Temperature control range	RT+5℃ ~+100℃	-5℃~+100℃
Temperature control accuracy	±1℃	±1℃
Ultimate vacuum value	≤0.3mbar	≤0.3mbar
Noise	≤55dB(A)	≤60dB(A)
Power	1100W	1200W
Voltage	AC220V 50Hz/60Hz 10A	AC220V 50Hz/60Hz 10A
Size (L*D*H)	481×370×294mm	608×370×348mm
Weight	28.5KG	48.6KG

Accessories

Rotor



Vacuum Centrifugal Concentrator

Auto R4 / AutoR4-Plus

Room temperature Type

Refrigerated Type



New electromagnetic drive system
high torque, low vibration, corrosion-resistant



Small volume & large capacity
Concentration of 264 pcs 1.5/2.0ml centrifuge tubes each time.



Large capacity design
24×50ml, 10×100ml chicken heart bottles, 4×250ml conical bottle.



JM-fast control system
Intelligent, precise and efficient.



Accessories

Cold Trap



Low-temperature cold trap
JM50-Plus(-60°C)



Low-temperature cold trap
JM60-Plus(-60°C)



Ultra-low temperature cold trap
JM80(-80°C)



Ultra-low temperature cold trap
JM105(-105°C)

Vacuum Pump



Vacuum oil pump
430



Imported diaphragm pump
460



Imported diaphragm pump
470



Organic solvent-resistant oil pump
490

Product Features

- Equipped with a fully automatic vacuum control system, control range from 0.1 to 100 mbar.
- Centrifugal imaging function enables continuous observation of sample concentration progress without stopping the operation.
- Two-stage temperature control design to ensure sample safety.
- Automatically releases vacuum pressure through an imported pressure relief valve, making operation simple and safe. It also features an automatic switch function.
- 4 sets shortcut keys and 30 sets of user operation programs.
- Corrosion-resistant vacuum gauge, no fear of organic solvents.

Technical Parameters

Model	Auto R4 Room temperature Type	Auto R4-Plus Refrigerated Type
Speed range	800rpm~2000rpm	800rpm~2000rpm
Maximum centrifugal force	650×g	650×g
Time range	1~9999min	1~9999min
Sample chamber pre-cooling function	No	Yes
Centrifugal imaging function	Yes	Yes
Temperature control range	RT+5℃~+100℃	-5℃~+100℃
Temperature control accuracy	±1℃	±1℃
Ultimate vacuum value	≤0.3mbar	≤0.3mbar
Noise	≤55dB(A)	≤60dB(A)
Power	1300W	1300W
Voltage	AC220V 50Hz/60Hz 10A	AC220V 50Hz/60Hz 10A
Size (L*D*H)	550×420×300mm	640×420×350mm
Weight	33.5KG	57.3KG

Accessories

Rotor



132×1.5ml



24×5ml+66×1.5ml



108×5ml



20×10ml (Round Bottom)



24×50ml(Conical Bottom)



48×15ml(Conical Bottom)

10×100ml
Chicken Heart Bottle

4×250ml



64×2ml(Glass Vial)

10×30/40ml
(Penicillin Bottle)2×96
MicroplateCentrifuge imaging
instrument A10

Integrated Centrifugal Concentrator

Auto R3

The integrated centrifugal concentrator Auto R3 is designed with a customer-centric approach, the design of the instrument conforms to ergonomics, with a user-friendly interface and sturdy durability. The comprehensive heating technology ensures quick and safe concentration of DNA/RNA, oligonucleotides, proteins, and other liquid samples.

Product Features

- **Space-saving:** Equipped with an imported brand corrosion-resistant diaphragm pump, featuring an integrated design.
- **Corrosion-resistant:** The centrifuge chamber is treated with Teflon coating for corrosion resistance and the vacuum pump head is made of Teflon material.
- **Easy to operate:** One-button start/stop function to avoid faulty operation.
- **Safe in operation:** Automatically releasing vacuum in case of power failure, with exhaust gas evacuation function.
- Specialized quick access programs for water and ethanol solutions, with 30 user programs available.
- Two stage temperature control design to ensure sample safety.



Technical Parameters

Speed range	800rpm~2000rpm	Noise	≤60dB(A)
Maximum centrifugal force	530×g	Power	1150W
Time range	1~9999min	Voltage	AC220V 50Hz/60Hz 10A
Temperature control range	RT+5℃~+100℃	Size (L*D*H)	608×370×299mm
Ultimate vacuum value	<13mbar	Weight	37.9KG
Pumping speed	33 L/min		

Accessories

Rotor



90×1.5ml



24×5ml+66×1.5ml



24×8×0.2ml



72×5ml(Round Bottom)



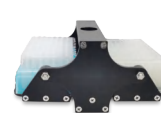
8×50ml(Conical Bottom)



20×15ml(Conical Bottom)



64×2ml(Glass Vial)



2×96 Microplate

High throughput Centrifugal Concentration System

Auto D2

Product Features

- JM-fast control system, more intelligent, precise and efficient.
- Standard fully automatic vacuum control system, control range from 0.1 to 100 mbar.
- New electromagnetic drive system, dual rotor overlapping design, large capacity, high efficiency, low vibration.
- Two-stage temperature control design, effectively protecting sample safety.
- 4 sets of quick program buttons, 30 sets of user stored programs.



Small volum & large capacity

Single-batch concentration & drying, 16pcs Microplates.



Vacumm Control System

Original from Germany, more stable and precise.



Corrosion -Resistant Design

No fear of organic solvents



New elctromagnetic drive system

High torque, low vibration , corrosion-resistant.

Technical Parameters

Speed range	800rpm~1500rpm	Ultimate vacuum value	≤0.2mbar
Maximum centrifugal force	450×g	Noise	≤60dB(A)
Time range	1~9999min	Power	2200W
Vacuum control range	0.1~100mbar	Voltage	AC220V 50Hz/60Hz 10A
Temperature control range	RT+5℃~+100℃	Size (L*D*H)	635×490×320mm
Temperature control accuracy	±1℃	Weight	61.3KG

Accessories



Microplate rotor carrier
4×2×96 Hole(2.2ml)



Microplate
4×4×96 Hole



Adapter
24×1.5ml



Adapter
24×5ml



Adapter
24×10ml



Adapter
8×15ml



Adapter 6×50ml



Imported diaphragm
pump 460



Imported diaphragm
pump 470



JM60-Plus(-60℃)



JM80(-80℃)



JM105(-105℃)

Vacuum Centrifugal Concentrator CV200

**Highly
Recommended**



Corrosion Resistance

Aluminum alloy centrifuge chamber with Teflon coating treatment.



Easy operation

One button start/stop function, automatic operation.



Sample safety

Automatic vacuum release after power off to protect sample safety.



Completely Accessories

More than 20 rotors available for optional.



Accessories

Cold Trap



Low-temperature
cold trap
JM50(-50℃)



Low-temperature
cold trap
JM50-Plus(-60℃)



Ultra-low temperature
cold trap
JM80(-80℃)

Vacuum Pump



Corrosion-resistant
diaphragm pump 410



Vacuum oil pump
420



Vacuum oil pump
430



Imported diaphragm
pump 460



Corrosion-resistant
diaphragm pump 480



Organic solvent-resistant
oil pump 490

Product Features

- **Speed adjustable:** The speed is adjustable within the range of 300rpm to 1800rpm which helps to prevent samples boiling.
- **User-friendly design:** The machine has a height of 24cm, making it convenient for sample retrieval and placement.
- **Temperature quick settings:** Room temperature, 30°C, 45°C, 60°C, ensuring safe and efficient for sample concentration.
- Vacuum delay function inside which initiates vacuum extraction after the preset speed is reached.
- **The cold trap cools rapidly:** Reaching the ultimate temperature within 10 minutes and fully pre-cooling within 20 minutes.

Safety design

- Automatic alarm for inadequate vacuum value, ensuring sample safety.
- Automatic vacuum release after power off to protect samples safety.
- Specially designed intake filtration components to keep samples away from cross contamination.

Technical Parameter

Speed range	300rpm~1800rpm
Maximum centrifugal force	430×g
Time range	0~9999min
Temperature control range	RT+5°C~+80°C
Cold trap temperature	-50°C/-60°C/-80°C
Cold trap capacity	2000ml

Ultimate vacuum value	≤30pa
Noise	≤60dB(A)
Power	1100W
Voltage	AC220V 50Hz/60Hz 10A
Size (L*D*H)	520×360×240mm
Weight	25.8KG

Accessories

Rotor



90×1.5ml



24×5ml+66×1.5ml



54×1.5ml+48×0.6ml



24×8×0.2ml



40×10ml



20×10ml(Round Bottom)



8×50ml+8×10ml



20×15ml(Conical Bottom)



8×50ml(Conical Bottom)



64×2ml(Glass Vial)



8×40ml+8×10ml



2×96 Microplate

Refrigerated Centrifugal Concentrator

CV600 Refrigerated Type

Highly Recommended



Small volume & large capacity

Dual-rotor stacked design, concentrate 180pcs tubes each time.



Refrigerated concentration system

Temperature control range from -5°C to +80°C.



Upgraded drive system

low vibration, low noise, high torque.



Centrifugal imaging function

Realize continuous observation of sample concentration progress without stopping the machine.



Accessories

Cold Trap



Low-temperature cold trap
JM50-Plus(-60°C)



Low-temperature cold trap
JM60-Plus(-60°C)



Ultra-low temperature cold trap
JM80(-80°C)



Ultra-low temperature cold trap
JM105(-105°C)

Vacuum Pump



Corrosion-resistant diaphragm pump 410



Vacuum oil pump 430



Scroll dry vacuum pump 440



Imported diaphragm pump 460



Imported diaphragm pump 470



Organic solvent-resistant oil pump 490

Product Features

- **Easy operation:** One-button start/stop function to avoid faulty operation.
- **Sample safety:** Automatically releasing vacuum in case of power failure to protect sample safety.
- **Safe in operation:** Automatic exhaust of waste gases after operation finished.
- **Stable and Reliable:** high performance motor, stable electromagnetic drive system, imported pressure relief valve, corrosion-resistant bearings.
- Vacuum delay function inside, which initiates vacuum extraction after the preset speed is reached.
- **Corrosion resistance:** The cold trap chamber is made of 304 stainless steel using a stretch forming process, with a Teflon coating resistant to hydrochloric acid.
- Automatic alarm for vacuum failure to meet standards, ensuring sample safety.



Freeze-dried Components

Technical Parameter

Speed range	300rpm~1800rpm	Centrifugal imaging function	Yes
Maximum centrifugal force	430×g	Noise	≤60dB(A)
Time range	0~9999min	Power	1200W
Temperature control range	-5℃~80℃	Voltage	AC220V 50Hz/60Hz 10A
Cold trap temperature	-60℃/-80℃	Size (L*D*H)	600×370×380mm
Cold trap capacity	2000ml/4500ml	Weight	48.3KG
Ultimate vacuum value	≤30pa		

Accessories

Rotor



90 × 1.5ml



24 × 5ml+66 × 1.5ml



54 × 1.5ml+48 × 0.6ml



72 × 5ml(Round Bottom)



24 × 8 × 0.2ml



40 × 10ml



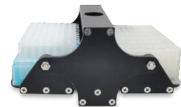
8 × 50ml



20 × 15ml(Conical Bottom)



64 × 2ml(Glass Vial)

8 × 40ml + 8 × 10ml
(Penicillin Bottle)16 × 20ml
(Penicillin Bottle)10 × 30/40ml
(Penicillin Bottle)

2 × 96 Microplate

Centrifuge imaging
instrument A10

Toxicity Detection Concentrator

CV400

In the criminal investigation and drug enforcement work within the public security system, it is necessary to conduct liquid chromatography-tandem mass spectrometry analysis on 10 substances (morphine, O6monoacetylmorphine, methamphetamine, amphetamine, ketamine, deschloroketamine, 3,4-methylenedioxymethamphetamine, 3,4-methylenedioxyamphetamine, cocaine, and benzoylecgonine) present in wastewater samples. This instrument through its specialized design, enables rapid concentration of solid phase extraction eluates, avoiding cross contamination between samples, improving recycle efficiency and achieving fast, safe and efficient sample pre-treatment.

Product Features

- No risk of cross-contamination between samples.
- Corrosion-resistant design, no fear of organic solvents.
- Does not require consumables and does not use nitrogen gas.
- Exhaust gas venting function to ensure operator safety.
- Rotational speed range from 300rpm to 1800rpm, preventing sample boiling.
- Low-temperature concentration of samples, no risk of degradation and oxidation.
- Compatible with specialized rotors for solid phase extraction (SPE) tubes, no need for transferring tubes.
- Equipped with a waste liquid recycle trap, making it more environmentally friendly.



Technical Parameter

Speed range	300rpm~1800rpm	Cold trap limit temperature	-60℃
Maximum centrifugal force	430×g	Cold trap capacity	2000ml
Time range	0~9999min	Power	1200W
Temperature control range	RT+5℃~+80℃	Voltage	AC220V 50Hz/60Hz 10A
Ultimate vacuum value	≤30pa	Size (L*D*H)	520×360×240 500×210×470mm
Noise	≤60dB(A)	Weight	57.5KG

Accessories

Rotor



20×10ml
(Round Bottom)



20×15ml(conical bottom)



40×10ml



40×10ml (SPE)



Import diaphragm
pump 450



Imported diaphragm
pump 460

Vacuum Centrifugal Concentrator

CV100-DNA

Product Features

- **Vacuum delay function:** automatically starting the vacuum after reaching the preset speed.
- **Adjustable speed:** 300rpm to 1800rpm to prevent sample boiling.
- **User-friendly design :** The machine has a height of 24cm, making it convenient for sample retrieval and placement.
- The whole machine is treated with corrosion resistance, no fear of organic solvents.
- Equipped with a standard large pumping speed corrosion-resistant diaphragm vacuum pump.



Technical Parameter

Maximum centrifugal force	390×g
Time range	0~9999min
Temperature control range	RT+5°C~65°C
Ultimate vacuum value	≤30pa
Noise	≤60dB(A)
Power	500W
Voltage	AC220V 50Hz/60Hz 10A
Size (L*D*H)	520×360×240mm
Weight	25.5KG

Accessories

Rotor



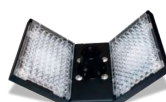
90 × 1.5ml



24×5ml+66×1.5ml



8×50ml+8×10ml

2×96
Microplate

Vacuum Pump

Corrosion-resistant
diaphragm pump 410Corrosion-resistant
diaphragm pump 480

High throughput Centrifugal Concentrator

CV800

Product Features

- **Sample protection:** Automatic vacuum release during power off to protect sample safety.
- **Personnel safety:** Automatic exhaust of waste gas after operation.
- **Stable and Reliable:** High performance motor, Stable Electromagnetic Drive System, Imported Pressure Relief Valve, Corrosion-resistant Bearings, etc.
- Vacuum delay function inside, which pumps vacuum after the preset speed is reached.
- **Corrosion resistance:** The chamber is made of 304 stainless steel material with a Teflon coating treatment.
- **High throughput:** Concentrating 200 pcs 1.5ml/5ml tubes simultaneously.



Vacuum Centrifugal Concentrator

MC-1

Product Features

- **Space-saving:** Small volume with large capacity, with a width of only 28cm.
- **Corrosion resistance:** The centrifuge chamber is treated with Teflon coating and the tubing is made of PTFE material.
- **Easy operation:** One-button start/stop function to avoid accidental operation.
- **Temperature quick settings:** Room temperature, 30°C, 45°C, 60°C, ensuring safe and efficient sample concentration.
- All gas contact parts are made of polytetrafluoroethylene (PTFE) material which has strong resistance to chemical corrosion.



Technical Parameter

Speed range	1800rpm	Standard Rotor	66×1.5ml
Maximum centrifugal force	380×g	Power	1000W
Time range	0~9999min	Voltage	AC220V 50Hz/60Hz 10A
Temperature control range	R+5°C~+70°C	Size (L*D*H)	350×280×290mm
Noise	≤55dB(A)	Weight	18KG

Accessories

Cold Trap



Low-temperature cold trap JM50(-50°C) Low-temperature cold trap JM50-Plus(-60°C)

Rotor



Vacuum Pump



Corrosion-resistant diaphragm pump 410



Corrosion-resistant diaphragm pump 480

Vacuum Centrifugal Concentrator

MC-3

Product Features

- The centrifuge chamber is treated with Teflon coating and the pipes are made of PTFE material.
- **Easy operation:** One-button start/stop function to avoid faulty operation.
- **Safe in operation:** Exhaust gas is automatically vented after the operation is completed.
- Upgraded electromagnetic drive system, with low vibration and low noise.
- **Temperature quick settings:** Room temperature, 30°C, 45°C, 60°C, ensuring safe and efficient sample concentration
- All gas contact parts are made of polytetrafluoroethylene (PTFE) material which has strong resistance to chemical corrosion.
- **Vacuum delay function:** automatically activates the vacuum after reaching the preset speed.



Technical Parameter

Speed range	1600rpm	Power	1100W
Maximum centrifugal force	340×g	Voltage	AC220V 50/60Hz 10A
Time range	0~9999min	Size (L*D*H)	440×360×290mm
Temperature control range	RT+5°C~+80°C	Weight	23KG
Noise	≤60dB(A)		

Accessories

Cold Trap



Low-temperature cold trap
JM50(-50°C)



Low-temperature cold trap
JM50-Plus(-60°C)



Low-temperature cold trap
JM60-Plus(-60°C)

Rotor



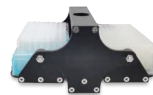
90×1.5ml



18×15ml



8×50ml



2×96
Microplate

Vacuum Pump



Vacuum oil pump
420



Corrosion-resistant
diaphragm pump 480

Integrated Refrigerated Centrifugal Concentrator

MC-8

Product Features

- Integrated design with a centrifugal chamber and cold trap combined, saving space.
- **Temperature control range of the main unit:** -5°C to 80°C, adjustable in 1°C increments.
- **Centrifugal imaging function:** Allows observation of sample concentration without stopping the machine.
- **Corrosion Resistance:** 304 stainless steel chamber with Teflon coating.
- The originally imported pressure relief valve automatically releases vacuum, ensuring easy and safe operation and is equipped with an automatic on/off function.



Technical Parameter

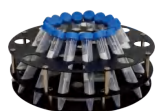
Speed range	300rpm~1800rpm	Ultimate vacuum value	≤30Pa
Maximum centrifugal force	430×g	Noise	≤60dB(A)
Time range	0~9999min	Power	1750W
Temperature control range	-5°C~+80°C	Voltage	AC220V 50Hz/60Hz 10A
Cold trap temperature	-50°C	Size (L*D*H)	580×609×366mm
Cold trap capacity	2000ml	Weight	60Kg

Accessories

Rotor



90×1.5ml



20×15ml(conical bottom)



24×5ml+66×1.5ml



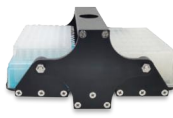
10×50ml(conical bottom)



72×5ml
(Round Bottom)



64×2ml(Glass Vial)



2×96
Microplate

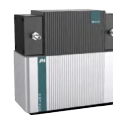


Centrifuge imaging
instrument A10

Vacuum Pump



Vacuum oil pump
430



Corrosion-resistant
diaphragm pump 480

High Efficiency Low-Temperature Cold Trap

JM50/JM50-Plus/JM60-Plus

The cold trap is a new efficient solvent recycle device used for condensing solvent vapors and recycle solvents. The cold trap significantly improves the efficiency of the vacuum concentration system by reducing vapor, increasing the vacuum level, accelerating the concentration process and avoiding cross contamination of samples.

User-friendly design

- Small volume with a width of only 21cm, saving laboratory space.
- Environmental over temperature alarm function.
- Compressor delay protection function.
- Single-handed drainage.

Corrosion-resistant design

- The cold trap chamber is made of 304 stainless steel using a stretch forming process, with a Teflon coating resistant to hydrochloric acid.
- The vacuum connector is made of optimized polypropylene material which is corrosion-resistant.
- Glass trap with stronger corrosion resistance (Optional).

New refrigeration system

- Famous brand cooling fans, stable and efficient.
- Rapid cooling capability of the new refrigeration system significantly improves the efficiency of the vacuum concentration system, accelerating the concentration process.
- The high-efficiency compressor offers superior performance and reliability. European brand and environmentally friendly refrigerants.



JM50

JM50-Plus

JM60-Plus

Technical Parameter

Model	JM50	JM50-Plus	JM60-Plus
Temperature	-50℃	-60℃	-60℃
Cold trap capacity	2000ml	2000ml	4500ml
Coil way	External coil	External coil	Internal coil
Cover material	Polypropylene	Polypropylene	Tempered glass
Voltage	900W	1000W	1000W
Size (L*D*H)	500×210×470mm	500×210×470mm	500×290×470mm
Power supply	AC 220 50Hz/60Hz 10A	AC 220 50Hz/60Hz 10A	AC 220 50Hz/60Hz 10A
Weight	32KG	34KG	39KG

Ultra-Low Temperature Cold Trap

JM80/JM105

New refrigeration system

- Reach to the ultimate temperature quickly, significantly improves concentration efficiency and increase the concentration process.
- The high-efficiency compressor offers superior performance and reliability.
- The internal coil design, faster pre-cooling speed and stronger recycling capacity.

Fully touchscreen user interface

- Fully touchscreen user interface access to cold trap information easily, including time records, temperature records and historical data.

Corrosion-resistant design

- The cold trap chamber is made of 304 stainless steel using a stretch forming process, with a Teflon coating resistant to hydrochloric acid.
- The sealing ring is made of corrosion-resistant materials.
- The drainage pipes are made of PTFE.



JM80

JM105

Technical Parameter

Model	JM80	JM105
Temperature	-80℃	-105℃
Cold trap capacity	4500ml	4500ml
Power	1800W	1800W
Size (L*D*H)	600×360×630mm	600×360×630mm
Voltage	AC 220 50Hz/60Hz 10A	AC 220 50Hz/60Hz 10A
Weight	70KG	75KG

Vacumm Pump

The vacuum pump provides a vacuum environment for the system and is a key part of the concentrator's performance. Selecting a suitable vacuum pump based on experimental background, research direction etc. which improves the experience of the experiment-personnel, the accuracy of the experimental results and the durability of the equipment.

Product characteristics :

- Vacuum oil pumps feature high pumping speed and high vacuum advantages, making them suitable for aqueous solutions and high boiling point solvents.
- Diaphragm vacuum pumps have the advantages of corrosion resistance and maintenance-free operation, making them suitable for various organic solvents.



Corrosion-resistant diaphragm pump 410

MPS :2.0m³/h(33L/min)
Ultimate vacuum:7mbar
Feature:Corrosion-resistant, maintenance-free,High pumping speed



Vacuum oil pump 420

MPS: 4.0m³/h(66L/min)
Ultimate vacuum: 0.01mbar
Feature:High pumping speed, High cost-effectiveness,High vacuum



Vacuum oil pump 430

MPS: 4.0m³/h(66L/min)
Ultimate vacuum: 0.01mbar
Feature: Industrial-grade, High pumping speed,High vacuum



Scroll dry vacuum pump 440

MPS: 10m³/h (180L/min)
Ultimate vacuum: 0.008mbar
Feature: High pumping speed,Corrosion resistant,High vacuum,maintenance-free



Imported diaphragm pump 450

MPS: 2.0m³/h(33L/min)
Ultimate vacuum: 7mbar
Feature: High pumping speed, Corrosion-resistant, Maintenance-free.



Imported diaphragm pump 460

MPS: 2.6m³/h(43L/min)
Ultimate vacuum: 5mbar
Feature: High pumping speed,Corrosion resistant, Maintenance-free



Imported diaphragm pump 470

MPS: 3.3m³/h (55L/min)
Ultimate vacuum: 2mbar
Feature: High pumping speed,Corrosion resistant,High vacuum,Maintenance-free



Corrosion-resistant diaphragm pump 480

MPS: 2.1m³/h(35L/min)
Ultimate vacuum: 8mbar
Feature:Corrosion resistant, Maintenance-free



Organic solvent-resistant oil pump 490

MPS: 2.5m³/h(42L/min)
Ultimate vacuum: 0.01mbar
Feature:High pumping speed, Corrosion resistant,High vacuum

Rotor Specification Sheet

vacuum pump & Rotors

Rotor	Specification D*H (mm)	AutoD2	AutoR1 R1-Plus	AutoR2 R2-Plus	AutoR3	AutoR4 R4-Plus	CV200	CV400	CV600	CV800	MC-1	MC-3 MC-8
66x1.5ml	1.5/2.0ml										✓	
90x1.5ml	1.5/2.0ml		✓	✓	✓		✓		✓			✓
132x1.5ml	1.5/2.0ml					✓						
200x1.5ml	1.5/2.0ml									✓		
24x8x0.2ml	8 Row		✓	✓	✓		✓		✓			✓
108x0.6ml			✓	✓	✓		✓		✓	✓		✓
54x1.5ml+48x0.6ml			✓	✓	✓		✓		✓			✓
24x5ml+66x1.5ml	Round Bottom 5ml		✓	✓	✓		✓		✓			✓
24x5ml	Round Bottom				✓						✓	
72x5ml	Round Bottom		✓	✓					✓			✓
108x5ml	Round Bottom					✓			✓			
20x10ml	Round Bottom							✓	✓			
40x10ml	Round//Conical/Vial		✓	✓		✓	✓	✓				✓
10x15ml	Conical bottom		✓	✓							✓	✓
20x15ml	Conical bottom		✓	✓	✓		✓	✓				✓
24x15ml	Conical bottom		✓	✓					✓			
48x15ml	Conical bottom					✓						
8x50ml	Conical bottom		✓		✓		✓	✓				✓
10x50ml	Conical bottom			✓								
24x50ml	Conical bottom					✓						
8x50ml+8x10ml	Round Bottom		✓	✓								✓
2x96 Microplate			✓	✓	✓	✓	✓		✓			✓
64x2ml Sample bottle	11.6x32		✓	✓	✓		✓		✓			✓
48x5ml Sample bottle	15x45/18x40		✓	✓								✓
120x5ml Sample bottle						✓			✓	✓		
20x10ml Penicillin bottle	22x50		✓	✓		✓			✓			
16x20ml Penicillin bottle	27.5x57		✓	✓		✓			✓			
10x30/40ml Penicillin bottle			✓	✓		✓						
8x40ml+8x10ml Penicillin bottle	27.5x95/22x50		✓	✓		✓			✓			
6x100mlChicken heart bottle			✓	✓		✓			✓			
10x100mlChicken heart bottle						✓						
4x250ml Conical bottle						✓						
4x2x96 Deep well plate	2.2ml	✓										
4x4x96 microplate		✓										
4x Microplate rotor	Adapter24x1.5ml	✓										
	Adapter4x5ml	✓										
	Adapter4x10ml	✓										
	Adapter8x15ml	✓										
	Adapter6x50ml	✓										

*Centrifugal imaging instrument A10 (optional)