



VORTEX 22K NEW

Large Capacity High Speed Refrigerated Centrifuge

VORTEX 22K is an intelligent centrifuge developed by Cence/Xiangyi. It can monitor 1 to 100 centrifuges through intelligent terminal (computer), monitor the operation status of centrifuges, and save relevant records of centrifuge operation. Establish a safe connection with the centrifuge and remotely control the startup and stopping of the centrifuge. It meets the requirements for the integrity of operation information of biopharmaceutical GMP instruments. Come with standard network interface, user can control the centrifuge by Mobile APP.

Product advantages

- ◆ Automatic door opening & closing by just touch the key on the screen. Door lid come with intelligent anti pinch device.
- ◆ Max speed up to 22000r/min, Max RCF up to 52020xg. Angle rotor 6x500ml can efficiently separating biological products, Swing rotor sample processing capacity up to 4x750ml, which greatly improves the production efficiency and separation effect.
- ◆ Featuring multiple protection, Such as automatic rotor identification, imbalance protection, over-speed protection, over-temperature protection, motor overheating protection, door lid protection and so on.
- ◆ Save up to 100 user-defined program. Users can name each program to distinguish it. Each program can be divided into 5 steps (set speed, time, temperature), to meet the diversified experimental needs.
- ◆ The rotor adopt 7075-T6 aviation grade alloy aluminum and titanium alloy ,hard oxidation, corrosion resistance. From raw material to finished products, each process is strictly controlled. The flaw detection report , tensile test report , chemical composition test report and processing test report can be provided.
- ◆ The centrifuge chamber is made of 316L stainless steel and 2mm thick (material certificate can be provided).
- ◆ Featuring 10 acceleration and 11 deceleration rates, to prevent the sample from second emulsion or turbid, and achieve best centrifugal effect.
- ◆ In manual mode, the centrifuge parameters can be set quickly, and the G-force and speed can be switched by just touch the key.
- ◆ Powerful control system allows easy data capture, storage, and processing.

Rotor parameters

| | | |
|------|--|--|
| No:1 |  | <p>Rotor Type: Angle Rotor Max Capacity: 16x10ml Max Speed: 22000r/min Max RCF: 52020xg Order NO: 0301800000 Adapter: 1.5ml, 5ml, 7ml</p> |
| No:2 |  | <p>Rotor Type: Angle Rotor Max Capacity: 6x50ml Max Speed: 20000r/min Max RCF: 43000xg Order NO: 0301800100 Adapter: 1.5ml, 5ml, 10ml, 15ml, 20ml, 25ml, 30ml</p> |

Technical parameter

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|----------------------------|---|------------|-------------|-----------|
| Order NO | 0202253003 | | | |
| Max Speed | Angle Rotor | 22000r/min | Swing Rotor | 4000r/min |
| Max RCF | Angle Rotor | 52020xg | Swing Rotor | 3500xg |
| Max Capacity | Angle Rotor | 6x500ml | Swing Rotor | 4x750ml |
| Time Setting Range | two mode 1min-99h59min, 1s-99min59s optional, default mode 1min-99h59min | | | |
| Timing mode | Start Timing after Spinning, Start Timing after Reach Setting Speed, Continuous Timing, Operation at an appointed Time | | | |
| Temperature Setting Range | -20°C~40°C, Setp 1°C ajustable | | | |
| Temperature Accuracy | ±2°C | | | |
| Speed Accuracy | ±10r/min | | | |
| Rotor Identification | Yes | | | |
| Imbalance Protection | Yes | | | |
| Pre-cooling function | Yes | | | |
| Computer Control | RS485 or RS232 | | | |
| Protection Function | Imbalance Protection,Rotor-identification,Door Lid Anti Pinch Protection,Motor Overheating Protection,Over-Speed Protection,Over-temperature Protection | | | |
| Automatic Door Lid Opening | Yes | | | |
| Power Supply | AC220±22V 50Hz | | | |
| Power Consumption | 5kW | | | |
| Noise | ≤65dB | | | |
| Dimension (WxDxH) | 700×935×940 (mm) | | | |
| Packing Dimension (WxDxH) | 920×1040×1200 (mm) | | | |
| Net Weight | 342kg | | | |

No:2



Rotor Type: Angle Rotor
 Max Capacity: 6×50ml (conical)
 50ml round bottom adapter as gift
 Max Speed: 20000r/min
 Max RCF: 43000xg
 Order NO: 0301800200
 Adapter: 15ml (conical)

No:3



Rotor Type: Angle Rotor
 Max Capacity: 8x50ml
 Max Speed: 18000r/min
 Max RCF: 37600xg
 Order NO: 0301800830
 Adapter: 1.5ml, 5ml, 10ml, 15ml, 20ml, 25ml, 30ml

No:4



Rotor Type: Angle Rotor
 Max Capacity: 4x250ml
 Max Speed: 14000r/min
 Max RCF: 29440xg
 Order NO: 0301800400
 Adapter: 1.5ml, 10ml, 15ml (conical) , 50ml (conical/round) 、 100ml

No:5



Rotor Type: Angle Rotor
 Max Capacity: 6x250ml
 Max Speed: 12000r/min
 Max RCF: 22470xg
 Order NO: 0301800600
 Adapter: 1.5ml, 10ml, 15ml (conical) , 50ml (conical/round) 、 100ml

No:6



Rotor Type: Angle Rotor
 Max Capacity: 6×500ml
 Max Speed: 10000r/min
 Max RCF: 17700xg
 Order NO: 0301800700
 Adapter: 1.5ml, 5ml, 10ml, 15ml (conical) , 30ml, 50ml (conical/round) 、 100ml, 250ml

No:9



Rotor Type: Angle Rotor
 Max Capacity: 10×100ml
 Max Speed: 12000r/min
 Max RCF: 21280xg
 Order NO: 0301809610
 Adapter: 5ml, 10ml, 15ml (conical/round) , 25ml, 50ml (conical/round)

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|--|---|
| <p>No:10</p>  <p>Rotor Type: Angle Rotor Max Capacity: 12x15ml (conical/round) Max Speed: 16000r/min Max RCF: 28618xg Order NO: 0301812600 Adapter: 5ml</p> | <p>No:11</p>  <p>Rotor Type: Angle Rotor Max Capacity: 12x50ml (conical) Max Speed: 12000r/min Max RCF: 22470xg Order NO: 0301801800 Adapter: 15ml(conical)</p> |
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No:7



Continuous Rotor
 Max Speed: 14000r/min
 Max RCF: 21500xg
 Standard Flow: 200~600
 Max Capacity: 1000ml
 Order NO: 0301890000

No:8



Continuous Rotor
 Max Speed: 8000r/min
 Max RCF: 9500xg
 Standard Flow: 200~800
 Max Capacity: 3000ml
 Order NO: 0301890100

No:14


















Continuous Rotor(Titanium Alloy)
 Max Speed: 10000r/min
 Max RCF: 14800xg
 Standard Flow: 200~800
 Max Capacity: 3000ml
 Order NO: 0301890300

No:15



Continuous Rotor(Titanium Alloy)
 Max Speed: 16000r/min
 Max RCF: 28100xg
 Standard Flow: 200~600
 Max Capacity: 1000ml
 Order NO: 0301890200

| Rotor | Bucket | Adaptor | Capacity/Order NO | Adaptor | Capacity/Order NO |
|--|--|---|--|---|---|
| <p>No:13</p>  <p>Rotor Type: Swing Rotor Max Speed: 4000 r/min Max RCF: 3500xg Max Capacity: 4x750ml Order NO: 0302891022 (Bucket not included)</p> |  Round Bucket Order NO: 0303891025  Aerosol-tight round bucket Order NO: 0303891006 |  | 4x1x500ml (conical/flat) 0304891035 (conical) 0304891036 (flat) |  | 4x1x250ml (conical/flat) 0304891562 (conical) 0304891039 (flat) |
| | |  | 4x4x100ml 0304891006 |  | 4x5x50ml (Self-standing tube) 0304891024 |
| | |  | 4x7x50ml (conical/round) 0304891003 (conical) 0304891004 (round) |  | 4x10x20ml 0304891163 |
| | |  | 4x15x15ml (conical) 0304891005 |  | 4x19x10ml (Self-standing tube) 0304891732 |
| | |  | 4x21x10ml 0304891730 |  | 4x27x5/7ml Vaccum blood collection tube 0304891728 |
| | |  | 4x37x5ml (RIA tube) 0304891166 |  | 4x56x1.5ml 0304891025 |

| Rotor | Bucket | Adaptor | Capacity/Order NO | Adaptor | Capacity/Order NO |
|--|--|---|---------------------------------------|---|--|
| <p>No:12</p>  <p>Rotor Type: Swing Rotor Max Speed: 4000r/min Max RCF: 3345xg Max Capacity: 4×500ml Order NO: 0302850100 (Bucket not included)</p> |  <p>Round Bucket Order NO: 0303891022</p>  <p>Aerosol-tight round bucket Order NO: 0303891077</p> |  | 4x1x250ml 0304891142 |  | 4x2x100ml 0304891009 |
| | |  | 4x4x50ml(conical/round) 0304891008 |  | 4x7x20ml 0304851485 |
| | |  | 4x9x15ml(conical/round) 0304891083 |  | 4x11x15ml (conical) (Cap≤21.5mm) 0304891508 |
| | |  | 4x14x10ml 0304891705 |  | 4x19x5/7ml Vaccum blood collection tube 0304851450 |
| | |  | 4x36x1.5ml 0304891677 | | / |
| |  <p>Rectangular Bucket Order NO: 0303851421</p>  <p>Rectangular bucket with sealing cover Order NO: 0303891016</p> |  | 4x1x250ml 0304891041 |  | 4x3x100ml 0304891744 |
| | |  | 4x6x50ml(conical/round) 0304891014 |  | 4x12x15ml(conical/round) 0304891582 (conical) 0304891779 (round) |
| | |  | 4x20x10ml 0304891077 |  | 4x31x5/7ml Vaccum blood collection tube 0304891782 |
| | |  | 4x56x1.5ml 0304891603 | | / |
| |  <p>Microplate bucket Order NO: 0303891110</p> | | 4x1x96 Deep-well plate | | 4x2x96 Microplate |