



VORTEX 10K

Large Capacity High Speed Refrigerated Centrifuge

VORTEX 10K 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 locking system

Automatic door opening & closing by just touch the key on the screen. Door lid come with intelligent anti pinch device.

◆Large Capacity , High Speed

Max sample processing capacity up to 6x1000ml, Max speed up to 10000r/min. Max RCF up to 17700xg, which greatly improves the production efficiency and separation effect.

◆Built-in safety

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.

◆Reliable Material

The alloy aluminum rotor adopt 7075-T6 aviation grade alloy aluminum, 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. Centrifuge chamber adopt 2mm thick 316L stainless steel, Housing (3mm Q235 steel), Containment (15mm Q235 steel), Diaphragm in door lid (3mm Q235 steel)

◆Extensible

The system adopts unified and standard Ethernet communication interface and provides key parameter point table, to facilitate system expansion and bring data into system monitoring.

◆Programmable

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.

◆ACC/DEC Rates

11 acceleration and 12 deceleration rate (NO.10 rate can be self-defined), to prevent second emulsion or turbid, to achieve best centrifugation result.

◆Main interface function

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 System Setting Function

Powerful control system allows easy data capture, storage, and processing.

◆Centrifuge Management System(Optional)

It can monitor 1 to 100 centrifuges through intelligent terminal (computer); Provide real-time connection with centrifuge with mobile APP; Built in help information in each interface; Make the centrifuge intelligent.

Technical parameter

Order NO	0202253001
Max Speed	10000r/min
Max RCF	17700xg
Max Capacity	6×1000ml
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
Power Supply	AC220±22V, 50Hz
Power Consumption	6.5kW
Noise	≤65dB (A)
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
Dimension (WxDxH)	700×900×940 (mm)
Packing Dimension (WxDxH)	920×1040×1200 (mm)
Net Weight	355kg

Rotor parameters

No:1



Rotor Type: Angle rotor
 Max Capacity: 6x500ml
 Max Speed: 10000r/min
 Max RCF: 17700xg
 Order NO: 0301802000
 Adapter: 78x1.5ml, 60x5ml, 42x10ml,
 42x15ml (conical) 、18x30ml,
 12x50ml (conical/round) 、6x100ml, 6x250ml

No:2



Rotor Type: Angle rotor (Carbon Fibre)
 Max Capacity: 6x500ml
 Max Speed: 10000r/min
 Max RCF: 17700xg
 Order NO: 0301891260
 Adapter: 78x1.5ml, 60x5ml, 42x10ml,
 42x15ml (conical) 、18x30ml,
 12x50ml (conical/round) 、6x100ml, 6x250ml

No:3



Rotor Type: Angle rotor
 Max Capacity: 6x1000ml
 Max Speed: 8000r/min
 Max RCF: 14472xg
 Order NO: 0301891091
 Adapter: 24x50ml (conical/round) 、6x250ml,
 6x500ml

No:5



Rotor Type: Angle rotor (Carbon Fibre)
 Max Capacity: 6×1000ml
 Max Speed: 8500r/min
 Max RCF: 16604xg
 Order NO: 0301080120
 Adapter: 24×50ml (conical/round) 、6×250ml,
 6x500ml