



ES-VORTEX6K

Large Capacity Low Speed
Refrigerated Centrifuge



LABORATORY



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Centrifuge ES-VORTEX6K is a smart centrifuge developed by Esse3.

1 to 100 sets of this centrifuge can be monitored by intelligent terminal (like computer). User can monitor the operation status of centrifuges, 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. It comes with standard network interface. User can also control the centrifuge by Mobile APP.

- Automatic door opening & closing by just touch the key on the screen. Door lid come with intelligent anti pinch device.
- Swing rotor 6x1000ml for biological product separation. It can also separate 6x400ml triple blood bags in one cycle, which greatly improves the production efficiency and separation effect.
- Multiple protective functions, including the protection of over-speed, over-temperature, motor over-heating as well as door lid.
- The 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).
- 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.
- 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.
- 11 acceleration and 12 deceleration rate (No.10 rate can be self-defined), to prevent second emulsion or turbid, to achieve best centrifugation result.
- In manual mode, parameters can be set quickly. RCF and speed be shifted by just touch the key.
- Powerful control system allows easy data capture, storage, and processing.
- (Optional)
1 to 100 this centrifuges can be monitored 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 SPECIFICATIONS

MaxSpeed	Angle Rotor	6000r/min	Swing Rotor	4200r/min
MaxRCF	Angle Rotor	6680xg	Swing Rotor	5100xg
Max Capacity	Angle Rotor	6x500ml	Swing Rotor	6x1000ml
Time Setting Range	two mode 1 min-99h59min , 1s-99min59s optional, default mode 1 min-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 , Setup 1°C ajustable			
Temperature Accuracy	±2°C			
Speed Accuracy	±10r/min			
Power Supply	AC220V±22V 50/60Hz			
Power Consumption	4kW			
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)	728x935x943 mm			
Packing Dimension (WxDxH)	920x1040x1200 mm			
Net Weight	330kg			



OPTIONAL ROTORS AND ADAPTERS

0301801900 Rotor N°1



Type	Angle rotor
Max Capacity	6x500ml
Max Speed	6000r/min
Max RCF	6680xg
Optional Adapters	6x250ml, 6x100ml, 12x50ml (conical), 18x50ml, 42x15ml (conical), 42x10ml, 60x5ml, 78x1.5ml

0302850500 Rotor N°2.1



Type	Swing Rotor
Max Capacity	6x1000ml
Max Speed	4200r/min
Max RCF	5100xg
Included	rotor, round bucket and windshield

0302891100 Rotor N°2.2



Type	Swing Rotor
Max Capacity	6x1000ml
Max Speed	4200r/min
Max RCF	5100xg
Included	rotor, rectangular bucket and windshield



0303891021 Bucket for Rotor N°2.1











Type	Round
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0303850601 Bucket for Rotor N°2.2

Type	Rectangular
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Adapters for bucket 0303891021

	6x1x500ml 0304891533 (conical) 0304891040 (round)		6x1x300ml 0304891048
	6x1x250ml (conical) 0304891049		6x1x200ml Blood bag 0304850527
	6x3x100ml 0304891042		6x5x50ml 0304891043 (conical) 0304891044 (round)
	6x14x15ml 0304891045 (conical) 0304891047 (round)		6x37x7ml (RIA tube) 0304850522
	6x24x5/7ml Vacuum blood tube 0304850525		6x28x1.5ml 0304850526

Adapters for bucket 0303850601

	6x1x1000ml - Blood bag adaptor 0304850602
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