



ES-VORTEX22K

Large Capacity High Speed
Refrigerated Centrifuge



LABORATORY



Features

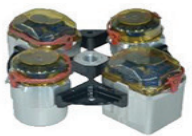



















Centrifuge ES-VORTEX 22K is an intelligent centrifuge. It can monitor 1 to 100 centrifuges through intelligent terminal (computer), monitor the operation status of centrifuges, and save relevant records of centrifuge operation. Establish a safe connection with the centrifuge and remotely control the 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.



- 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.
- 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 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
- 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.
- 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.

Technical Parameters

Model	ES-VORTEX22K
Order No.	202253003
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
Speed Accuracy	±10r/min
Time Setting Range	Two modes optional: 1min to 99h59min and 1s to 99min59s ; Default mode: 1s to 99min59s
Temperature Setting Range	-20°C to 40°C, Step 1°C adjustable
Temperature Accuracy	±2°C
Pre-cooling Function	Yes
Rotor Identification	Yes
Imbalance Protection	Yes
Automatic Door Locking System	Yes (Optional)
Computer Control	RS485 or RS232
Protection Function	Imbalance Protection, Rotor Identification, Door Lid Anti Pinch Protection, Motor Overheating Protection, Over-speed Protection and Over-temperature Protection
Noise	≤65dB(A)
Power Supply	AC220V±22V 50Hz
Power Consumption	5kW
Dimension (WxDxH)	700x935x940(mm)

Rotors

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: 4x500ml Order NO: 0302850100 (Bucket not included)</p>	 Round Bucket Order NO: 0303891022		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		/	
	 Rectangular Bucket Order NO: 0303851421		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		/	
	 Microplate bucket Order NO: 0303891110		4x1x96 Deep-well plate	4x2x96 Microplate		

<p>No:2</p>  <p>Rotor Type: Angle Rotor Max Capacity: 6x50ml (conical) 50ml round bottom adapter as gift Max Speed: 20000r/min Max RCF: 43000xg Order NO: 0301800200 Adapter: 15ml (conical)</p>	<p>No:3</p>  <p>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</p>
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<p>No:4</p>  <p>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</p>	<p>No:5</p>  <p>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</p>
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<p>No:6</p>  <p>Rotor Type: Angle Rotor Max Capacity: 6x500ml Max Speed: 10000r/min Max RCF: 17700xg Order NO: 0301800700 Adapter: 1.5ml, 5ml, 10ml, 15ml (conical) , 30ml, 50ml (conical/round) , 100ml, 250ml</p>	<p>No:9</p>  <p>Rotor Type: Angle Rotor Max Capacity: 10x100ml Max Speed: 12000r/min Max RCF: 21280xg Order NO: 0301809610 Adapter: 5ml, 10ml, 15ml (conical/round) , 25ml, 50ml (conical/round)</p>
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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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<p>No:7</p>  <p>Continuous Rotor Max Speed: 14000r/min Max RCF: 21500xg Standard Flow: 200~600 Max Capacity: 1000ml Order NO: 0301890000</p>	<p>No:8</p>  <p>Continuous Rotor Max Speed: 8000r/min Max RCF: 9500xg Standard Flow: 200~800 Max Capacity: 3000ml Order NO: 0301890100</p>	<p>No:14</p>  <p>Continuous Rotor(Titanium Alloy) Max Speed: 10000r/min Max RCF: 14800xg Standard Flow: 200~800 Max Capacity: 3000ml Order NO: 0301890300</p>	<p>No:15</p>  <p>Continuous Rotor(Titanium Alloy) Max Speed: 16000r/min Max RCF: 28100xg Standard Flow: 200~600 Max Capacity: 1000ml Order NO: 0301890200</p>
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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		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
	 Aerosol-tight round bucket Order NO: 0303891006		4x15x15ml (conical) 0304891005		4x19x10ml (Self-standing tube) 0304891732
			4x21x10ml 0304891730		4x27x5/7ml Vaccum blood collection tube 0304891728
			4x37x5ml (RIA tube) 0304891166		4x56x1.5ml 0304891025



ESSE3 srl, Via Garibaldi 30
 14022 Castelnuovo D.B. (AT)
 Tel +39 011 99 27 706
 Fax +39 011 99 27 506
 e-mail esse3@chierinet.it
 web: www.esse3.dreamgest.com

