



## CF220R

### Large Capacity High Speed Refrigerated Centrifuge

CF220R is an intelligent centrifuge developed by LAB1ST. 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 start-up 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. (optional)
- ◆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.









#### Technical Parameter

<p>No:1</p>  <p>Rotor Type: Angle Rotor Max Capacity: 16x10ml Max Speed: 22000r/min Max RCF: 52020xg Order NO: 927003 Adapter: 1.5ml, 5ml, 7ml</p>	<p>No:2</p>  <p>Rotor Type: Angle Rotor Max Capacity: 6x50ml Max Speed: 20000r/min Max RCF: 43000xg Order NO: 927004 Adapter: 1.5ml, 5ml, 10ml, 15ml, 20ml, 25ml, 30ml</p>
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#### Rotor Parameters






















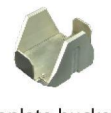
Order NO	926912			
Max Speed	Angle Rotor	22000r/min	Swing Rotor	4000r/min
Max RCF	Angle Rotor	52020xg	Swing Rotor	3500xg
Max Capacity	Angle Rotor	6x500ml	Swing Rotor	4x750ml
Time Setting Range	two mode 1min-99h59min, 1s-99min59s optional, default mode 1min-99h59min			
Timing mode	Start Timing after Spinning, 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			

<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: 927005 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: 927009 Adapter: 1.5ml, 5ml, 10ml, 15ml, 20ml, 25ml, 30ml</p>
<p>No:4</p>  <p>Rotor Type: Angle Rotor Max Capacity: 4x250ml Max Speed: 14000r/min Max RCF: 29440xg Order NO: 927006 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: 927007 Adapter: 1.5ml, 10ml, 15ml (conical), 50ml (conical/round), 100ml</p>
<p>No:6</p>  <p>Rotor Type: Angle Rotor Max Capacity: 6x500ml Max Speed: 10000r/min Max RCF: 17700xg Order NO: 927008 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: 927023 Adapter: 5ml, 10ml, 15ml (conical/round), 25ml, 50ml (conical/round)</p>

<p><b>No.10</b></p>  <p>Rotor Type: Angle Rotor Max Capacity: 12x15ml (conical/round) Max Speed: 16000r/min Max RCF: 28618xg Order NO: 927025 Adapter: 5ml</p>	<p><b>No.11</b></p>  <p>Rotor Type: Angle Rotor Max Capacity: 12x50ml (conical) Max Speed: 12000r/min Max RCF: 22470xg Order NO: 927014 Adapter: 15ml(conical)</p>
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<p><b>No.7</b></p>  <p>Continuous Rotor Max Speed: 14000r/min Max RCF: 21500xg Standard Flow: 200~600 Max Capacity: 1000ml Order NO: 927028</p>	<p><b>No.8</b></p>  <p>Continuous Rotor Max Speed: 8000r/min Max RCF: 9500xg Standard Flow: 200~800 Max Capacity: 3000ml Order NO: 927029</p>	<p><b>No.14</b></p>  <p>Continuous Rotor(Titanium Alloy) Max Speed: 10000r/min Max RCF: 14800xg Standard Flow: 200~800 Max Capacity: 3000ml Order NO: 927031</p>	<p><b>No.15</b></p>  <p>Continuous Rotor(Titanium Alloy) Max Speed: 16000r/min Max RCF: 28100xg Standard Flow: 200~600 Max Capacity: 1000ml Order NO: 927030</p>
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Rotor	Bucket	Adaptor	Capacity/Order NO	Adaptor	Capacity/Order NO
<p><b>No.12</b></p>  <p>Rotor Type: Swing Rotor Max Speed: 4000 r/min Max RCF: 3500xg Max Capacity: 4x750ml Order NO: 927403 (Bucket not included)</p>	 <p>Bucket Order NO:927406</p>		4x1x500ml (conical/flat) 927415 (conical) 927416 (flat)		4x1x250ml (conical/flat) 927260 (conical) 927204 (flat)
			4x4x100ml 927409		4x5x50ml (Self-standing tube) 927203
			4x7x50ml(conical/round) 927407 (conical) 927097 (round)		4x10x20ml 927417
	 <p>Aerosol-tight bucket Order NO: 927405</p>		4x15x15ml (conical) 927408		4x19x10ml (Self-standing tube) 927271
			4x21x10ml 927270		4x27x5/7ml Vaccum blood collection tube 927269
			4x37x5ml (RIA tube) 927251		4x56x1.5ml 927414

Rotor	Bucket	Adaptor	Capacity/Order NO	Adaptor	Capacity/Order NO
<p><b>No.13</b></p>  <p>Round Bucket Order NO: 927068</p>  <p>Aerosol-tight round bucket Order NO: 927071</p>  <p>Rotor Type: Swing Rotor Max Speed: 4000r/min Max RCF: 3345xg Max Capacity: 4x500ml Order NO: 927401 (Bucket not included)</p>			4x1x250ml 927244		4x2x100ml 927099
			4x4x50ml(conical/round) 927098		4x7x20ml 927096
			4x9x15ml(conical/round) 927232		4x11x15ml (conical) (Cap≤21.5mm) 927256
			4x14x10ml 927267		4x19x5/7ml Vaccum blood collection tube 927095
			4x36x1.5ml 927265		/
	 <p>Rectangular Bucket Order NO: 927061</p>  <p>Rectangular bucket with sealing cover Order NO: 927065</p>			4x1x250ml 927206	
			4x6x50ml(conical/round) 927201		4x12x15ml(conical/round) 927262 (conical) 927275 (round)
			4x20x10ml 927228		4x31x5/7ml Vaccum blood collection tube 927276
			4x56x1.5ml 927263		/
 <p>Microplate bucket Order NO: 927072</p>			4x1x96Deep-well plate		4x2x96Microplate