

33 CL5R/ CL5

Large Capacity Refrigerated Centrifuge

CL5R(refrigerated)/ CL5(ventilated) are a new generation of smart centrifuges with new UI interface design to meet the new demand of customers, featuring small footprint and high cost-effective. It can quicken separation with 6x500ml or 4x1000m swing rotors. Ideal refrigerating effect is achieved with world advanced compressor set. The centrifuges are the first choice equipment for the customers in the field of blood banks for emergent separating and hospitals for large capacity applications.



Features

Multi-purpose centrifuge, to meet the research demand of blood components separation, clinics and life science.

- ✧ **Blood components separation:** It can separate 4x450ml triple blood bags or 8x200ml triple blood bags with quick centrifugation programs, compact design as well as ideal cost-effectiveness.
- ✧ **Clinical examination:** It is equipped with multiple adapters (1.5ml~1000ml), 6x500ml swing rotors, almost covering all the tubes used in the centrifuging applications of mass capacity in large hospitals.
- ✧ **Life science research:** It can handle the samples with large capacity or with multiple tubes

Safe & Reliable

- ✧ CL5R centrifuge is safeguarded with triple structures of inner chamber, jacket and housing, non-contact imbalance protection and multiple protective functions, including the protection of over-speed, over-temperature, over-heated motor as well as door lid, providing safety for the samples, centrifuge and operator.
- ✧ ISO9001, ISO12458 quality system have been effectively running for 15 years, ensuring the stability and consistency of the product quality.

✧ High sensitivity touch panel & super control system

	<p>HD and bright touch panel can be operated with your gloved hand: Simplify laboratory-set and test operation. Setting parameters (speed, time, temperature) and actual running parameters can be displayed on the screen simultaneously with easy readout.</p>
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✧ Curve running display mode

	<p>Easy readout of speed,temperature etc. through curve display mode at a glance,showing the stability status of operation.</p>
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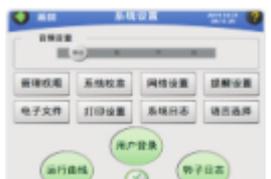
✧ **Program setting**

	<p>It is of vital importance to conduct test through programs which can reproduce user experimental package by calling out the program number. Five centrifugal stages can be set to satisfy your demand for diversified experiments. One button to start your perfect experimental package (100 programs are built-in and each program is divided into 5 steps,and more programs can be set if with external memory)</p>
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✧ **Access Control**

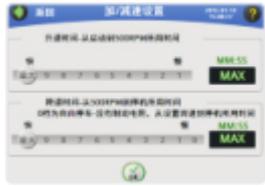
	<p>Different users are assigned with different access authorities and passwords to enhance access control of operators. Chinese and English interfaces are available for your free choice.</p>
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✧ **Significant System Control Tools**

	<p>Different operation options are built in for different applications, E.g Curve running mode interface can be switched to main interface through touching the button of operation mode, and user login button to determine if login is needed for certain operation.</p>
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✧ **Data Information**

	<p>Data trace management: You can view running historic record, fault record,etc on the screen and conduct storage through USB to the other relevant device.</p>
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* 9 Acceleration Curves and 10 deceleration curves are provided to effectively prevent secondary suspension achieving best centrifuging result, which can be customer-designed for more applications.



* Manual input sample number or automatic scanning to check the centrifuging record of each sample.



* Start timing after reaching the set speed, start-run timing, infinity timing operation, operation at an appointed time etc are optional.



cence Powerful Software Technology can identify rotor's actual operation times, service life, and accumulated running time to determine if the rotor exceeds the scope of use for further guarantee the safe operation (System functions can be customized according to requirements).

Technical Parameters

Model		CL5R	CL5
Order No.		0204256000	0204255000
Max. Speed	Angle rotor	5000rpm	
	Swing rotor	5000rpm	
Max.RCF	Angle rotor	4640xg	
	Swing rotor	6100xg	
Max.capacity	Angle rotor	6x500ml	
	Swing rotor	4x1000ml	
Speed accuracy		±10rpm	
Speed range		100rpm~Max. speed,progressive step100 (it can be customized,multiples of 10)	
Time Range		1min to 99h59min	
Mode of timing		Timing after start-up,timing when reaching the max speed,Instantaneous & continuous timing,start-up at the specified time	
Acceleration/ deceleration curve		9 acceleration rates,10 deceleration rates (<30 rates can be customized)	
Temp Range		-20°C to 40°C (1°C adjustable)	NO
Pre-cooling		Available (up to -20°C)	NO
Temp accuracy		±1°C	NO
Step centrifugation		Available (100 programs, each program can be divided into 5 steps. More programs can be set through external memory)	

Compressor set		Environment-friendly Compressor set with (R404a)	NO
Drive system		Brushless motor with high torque	
Noise		<65dB(A)	
Power supply		AC220V +/-22V,50Hz 15A	AC220V +/-22V,50Hz 10A
Power consumption		3.0kW	2.0kW
Dimensions (WxDxH)		700x880x930(mm)	
Packing size(WxDxH)		820x1000x1080(mm)	
Weight		260Kg	220Kg
Key parts material		316 centrifuge chamber, PPCO test bottle, Aluminum alloy rotor.	
Others		Multiple languages are available for free choice, user log, maintenance records, access password, automatic door lid control, rotor recognition, over-temperature protection.	

Rotor Optional

Rotor	Adapt er	Capacity	Place s	Diameter (mm)	Depth (mm)	Order No
 <p>Order No. 0301801900 Speed: 5000rpm RCF: 4640xg Capacity: 6x500ml Diameter: 70mm Depth: 141.5mm</p>		350ml	6	Φ62	113	030489106 6
		100ml	6	Φ38.5	109	030489106 7
		50ml (Conical)	12	Φ29.5	102	030489108 8
		50ml	6	Φ29.5	103	030489106 9
		50ml (Conical)	6	Φ29.5	102	030489107 1
		30ml	18	Φ29.5	98	030489108 9
		15ml (Conical)	42	Φ17	104	030489107 2
		10ml	42	Φ17	78	030489107 3
		5ml	60	Φ14	49	030489107 6
		1.5ml	78	Φ11.2	38	030480070 9

Rotor		Adapt er	Capacit y	Place s	Diameter mm	Depth mm	Order No
<p>Swing Rotor</p>  <p>Order No. 03028571 00</p> <p>Speed: 5000rpm</p> <p>RCF: 6100xg</p> <p>Capacity: 4x1000ml</p>	 <p>Round cup 030389102</p> <p>7 Capacity: 4x1000ml</p>		500ml	4	Φ81	110	030489105 2
			300ml	4	Φ62	110	030489105 5
			250ml (Conical)	4	Φ61	117	030489106 3
			200ml Blood bag	4	/	/	030485711 3
			100ml	12	Φ38	95	030489105 7
			50ml (Conical)	20	Φ29.5	87	030489105 8
			50ml	20	Φ29.5	85	030489106 0
			15ml (Conical)	56	Φ17	88	030489106 2
			15ml	56	Φ17	86	030489105 3
			7ml	148	Φ13.5	69	030485711 8
			5ml	96	Φ14	62	030485711 9
			1.5ml	112	Φ11.2	36	030485712 0

		1000ml Lining Cup	4	/	/	030485060 2
030385710 6 4x1000ml	Adapters can be customized					

Rotor	Cup	Adapter	Capacity (ml)	Place	Diameter (mm)	Depth (mm)	Order No.		
Swing Rotor  Order No. 0302857200 Speed: 5000rpm RCF: 5980xg Capacity 6x500ml (Speed: 4000rpm if without wind shield)	 Round cup Order No. 0303891022 Capacity 6x500ml		300	6	Φ63	100	030489114 2		
			100	6	Φ38.5	107	030489108 7		
				12	Φ38.5	95	030489100 9		
			50	18	Φ29.5	72	030489108 2		
				24	Φ29.5	80	030489100 7		
			50 conical	24	Φ29.5	75	030489100 8		
			20	42	Φ21	72	030485148 5		
			15	54	Φ17	72	030489108 3		
			5	114	Φ14	72	030485145 0		
				120	Φ14	72	030489101 0		
			50 conical		250	6	Φ63	95	030489104 1
					24	Φ29.5	76	030489107 5	
					36	Φ29.5	76	030489101 4	
					50	24	Φ29.5	74	030489110

<p>Order No: 03038514 21</p>						7
			36	Φ29.5	74	030489101 3
		15 conical	60	Φ17	76	030489107 4
			102	Φ17	76	030489101 1
		15	60	Φ17	76	030489110 4
		10	120	Φ16.5	76	030489107 7
		5	168	Φ13.5	76	030489108 1
		1.5	150	Φ11.2	76	030489107 9