

Low speed refrigerated centrifuge with 4 units of 250ml

Low speed refrigerated centrifuge is an efficient laboratory equipment combining low-speed centrifugation and cooling functions, designed for handling samples that require a low-temperature environment.

Low Speed Refrigerated Centrifuge

Low speed refrigerated centrifuge is widely used in clinical medicine, molecular biology, cytology and other fields, suitable for those temperature sensitive samples, such as proteins, cells and other biological samples.

Features

1. Efficient speed and capacity: the speed reaches 5500rpm, which is suitable for most low-speed centrifugation needs. Equipped with four 250ml large-capacity rotary heads, it is capable of handling multiple samples, which greatly improves the working efficiency.
2. Intelligent control system: equipped with program group shortcut keys and large storage space, can store 99 program groups, easy to call at any time. Supporting the electric door lock function, you can choose whether to open the chamber door automatically after centrifugation, to enhance the convenience of operation. Equipped with long-press start and instantaneous centrifugation function, suitable for rapid processing of special samples.



3. Temperature control and acceleration function: built-in special insulation process to ensure temperature stability during centrifugation, avoid refrigerant loss and ensure cooling effect. Equipped with linear drive system, it provides 10 acceleration and 10 deceleration settings, which can adjust the separation speed according to the needs of different samples and ensure the separation effect.
4. Multiple protection and safety features: the equipment has a rotor automatic identification system, which can prevent the safety hazards caused by wrong operation. Electromagnetic induction door protection and double electronic door lock design, as well as over-speed, over-temperature, imbalance and other multiple warning protection functions to ensure the safety of operation. The body is protected by a three-layer all-steel structure, which enhances the stability and durability of the equipment.
5. Energy efficiency and environmentally friendly design: equipped with ECO automatic standby function, in the case of 8 hours unused automatically enter standby mode, reduce energy consumption and extend the life of the compressor.
6. Convenient detail design: the front of the body is designed with an operating SOP, standard operating procedures guide chart, to help experimenters more simple and standardized operation. Random tool holder and quick locking rotor cover design improves operation convenience and safety. Noise reduction system effectively reduces the operating noise, providing a more comfortable working environment for experimental personnel.

Working Principle

1. The core principle of the low speed refrigerated centrifuge is to utilize the centrifugal force generated when the rotor rotates at a high speed to separate different components in the sample according to their density differences. During centrifugation, the separation process can be precisely controlled by adjusting the speed, time and acceleration/deceleration settings. The refrigeration system maintains a low-temperature environment in the centrifugal chamber through the internal refrigeration mechanism to prevent denaturation or degradation of the samples due to temperature increase at high rotational speeds.
2. The cooling system of the equipment adopts highly efficient refrigerant and special insulation process, which can effectively prevent temperature fluctuation during the centrifugation process and maintain the stability of the samples. Meanwhile, the intelligent control system of the centrifuge can real-time display centrifugal force, speed, time and other parameters, and can be adjusted at any time without stopping the machine during operation, ensuring the flexibility of operation and high efficiency of the experiment.

Low speed refrigerated centrifuge with 4 units of 250ml

Model	CL10R
Maximum speed	5500rpm
Maximum RCF	4919xg
maximum capacity	4x250ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Temperature setting range	-20°C to 40°C
Temperature Accuracy	±1.0°C
Noise	≤60dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 10A
Power	1000W

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Model	CL10R
Overall dimensions	595x660x365mm
Net weight	89kg

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Rotor name	rotor number	ordinal number	Volume	Maximum speed	Maximum RCF
rotor angular rotor	1	1	6x50ml	5500rpm	3645xg
	2	2	40x15ml	5000rpm	4919xg
Multi-tube rack horizontal rotor body	3	3	Required for use with pipe racks		
tube rack	3	4	4x50ml	4000rpm	2951xg

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Rotor name	rotor number	ordinal number	Volume	Maximum speed	Maximum RCF
		5	4x100ml		
		6	8x50ml		
		7	8x100ml		
		8	16x10/15ml	4000rpm	2951xg
		9	24x10/15ml		
		10	32x10/15ml		

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Rotor name	rotor number	ordinal number	Volume	Maximum speed	Maximum RCF
		11	48x2ml to 7ml, Vacuum Blood Collection Tubes		
		12	64x5ml, Vacuum Blood Collection Tubes		
Horizontal rotor	4	13	4x250ml round cups	4000rpm	3040xg
		14	4x250ml round cups with biosafety lids	4000rpm	3040xg
		15	4x250ml oval cups	4000rpm	3040xg

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Rotor name	rotor number	ordinal number	Volume	Maximum speed	Maximum RCF
Horizontal rotor body	4	16	Horizontal rotor body 4x250ml		
tube rack	4	17	56x5ml, vacuum blood collection tube	4000rpm	3040xg
		18	16x50ml tip, round bottom universal	4000rpm	3040xg
		19	36x15ml	4000rpm	3040xg
Horizontal rotor	5	20	2x2x96-well enzyme labeling plate	4000rpm	2057xg