

3H系列智能高速冷冻离心机

3H series Intelligent High-speed refrigerated centrifuge

3H系列智能高速冷冻离心机于2010年获得中国仪器仪表行业协会颁发的《自主创新银奖》



特性

- 采用大力矩无刷变频电机，控制采用Microchip公司的dsPIC30F系列单片机控制，电机驱动采用FAIRCHILD公司的FSBB30CH系列专用驱动模块，保证了电路的高可靠性。
- 设有超速、超温、不平衡等多种保护措施，特殊组合减震装置，使电机平稳运行。设有三层钢套保护、运行安全可靠、确保人身设备安全。
- TFT真彩大屏幕触控液晶显示，智能化控制、简单方便地操作、触摸面板，同时显示设定参数和运行参数。
- 采用静音机电一体化电机门锁。
- 可提供100种以上工作模式选择，可自由编程、调用。
- 10档加速/减速速率控制
- 最高转速：30000r/min，最大离心力：62400 × g

Features

- Using a brushless motor with high torque and variable frequency which is controlled by an SCM of Microchip's dsPIC30F series and driven by a special driver module of FAIRCHILD'S FSBB30CH Series to ensure the circuit's reliability.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly. With triple protective layers of steel bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- With TFT true-color LCD wide-screen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 100 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up and speed-down control.
- Maximum rotation speed: 30000r/min, Maximum centrifugal force: 62400 × g.

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技术参数 Specification

型号 Model	3H30RI	3H26RI	3H24RI	3H20RI	3H16RI	3H12RI
最大容量 Max Capacity	4 × 100ml Swing bucket rotor					
最高转速 Max Speed (r/min)	30000	26000	24000	20800	16800	12000
最大离心力 Max RCF (× g)	62400	46900	39900	30000	19600	12300
标配转子 Standard rotor	4 × 1.5/2.0 ml 钛合金 Titanium alloy	12 × 1.5/2.0 ml 钛合金 Titanium alloy	12 × 1.5 /2.0ml 钛合金 Titanium alloy	12 × 1.5/2.0ml	12 × 1.5/2.0ml	24 × 1.5/2.0ml
转速精度 Speed precision	50r/min					
制冷系统 Refrigeration system	进口无氟制冷压缩机组和控制阀 (R404a) Import fluoride-free compressor and control valve (R404a)					
温控范围 Temp.control range	-20℃ ~40℃					
温控精度 Temp.precision	±1℃					
运行程序 Operation programme	100					
总功率 Total power	1.5kw					
定时范围 Timer range	0-99h59min					
噪音 Noise	≤65dB					
转子识别 Identify rotor	自动转子识别功能 automatic					
重量 Weight	75kg					
外形尺寸 Dimension (L × W × H)	710 × 630 × 350mm					

产品名称 Model	容量 Capacity	3H24RI		3H20RI		3H16RI		3H12RI	
		转速 Speed (r/min)	离心力 RCF (xg)	转速 Speed (r/min)	离心力 RCF (xg)	转速 Speed (r/min)	离心力 RCF (xg)	转速 Speed (r/min)	离心力 RCF (xg)
角转子 Angle rotor	12 × 1.5/2.0ml	24000	39900	20800	30000	16800	19600	12000	10000
	24 × 1.5/2.0ml	16000	23800	14000	18180	14000	18180	11500	12300
	18 × 1.5ml	16000	17700	16000	17700	14000	13600		
	30 × 1.5ml	12000	15300	12000	15300	11000	12900		
	48 × 0.5ml	13500	17500	13000	16300	12000	13800		
	10 × 5ml	20000	27700	16000	17700	13000	11700	12000	10000
	12 × 10ml/5ml	15000	21600	14000	18800	12000	13400	12000	13400
	8 × 15ml	12000	14830	12000	14830	12000	14830		
	6 × 50ml	12000	13800	12000	13800	11000	11600	10000	9600
水平转子 Swing rotor	4 × 100ml	11000	11730	10000	10500	9000	8500	8000	6700
	4 × 100ml	4000	2140	4000	2100	4000	2100		
	12 × 10ml	4000	2330	4000	2330	4000	2330		
	4 × 50ml	4000	2160	4000	2160	4000	2160	4000	2160
水平酶标板转子 Swing microplate rotor	4 × 10ml	6000	3200	6000	3200	6000	3200	6000	3200
	2 × 2 × 48 孔holes	3000	1400	3000	1400	3000	1400		

可选配件 Optional fittings



12 × 1.5/2.0 ml



18 × 1.5/2.0 ml



24 × 1.5/2.0 ml



10 × 5 ml



8 × 7 ml



12 × 10 ml



8 × 15 ml



6 × 50 ml



4 × 100 ml



4 × 50 ml