

TLS-5S

Low speed centrifuge



TLS-5S Low speed Centrifuge







Application

The TLS-5S low-speed centrifuge combines powerful functions, high versatility, easy operability and other advantages. It adopts innovative control technology, has reliable quality and superior performance, and is widely used in medical clinical biochemistry, hematology, immunology and clinical medicine. Scientific research and molecular biology research as well as routine analysis in industrial laboratories are more significant in experimental research on genetic genes, proteins, nucleic acids, and PCR products.



Product features

- Adopting advanced and reliable FOC vector sine wave drive control system, it can accurately control the speed, time
- The 5-inch LCD high-brightness black background with white characters is preferred
- Maintenance-free brushless DC variable frequency motor, speed range 100 ~ 6000rpm, accuracy ±20rpm;
- Single knob control allows for quick parameter changes;
- Equipped with door cover protection, overspeed, overvoltage and current and imbalance detection systems. LCD screen displays the result code.
- Flash centrifugation: press and hold to achieve fast and convenient centrifugation, and automatically memorize the last experimental value;

- \bullet The centrifugal speed and g force were adjusted in increments of 10 rpm/10 \times g;
- High-strength host and rotor materials can resist various chemical corrosion, have sealing performance and unlimited high-temperature sterilization function.
 Teflon-coated stainless steel cavity
- Forced ventilation cooling and excellent air heat exchange technology can significantly and effectively reduce the increase in rotor temperature and ensure that the sample is not damaged.
- An isolation layer is installed outside the centrifugal chamber to fully absorb noise, reduce vibration
- The new innovative electronically controlled automatic suction double lock enables easy and quick opening and closing of the lid
- 10 built-in storage programs/5 panel shortcut program calls/equipped with NORAML button;

Rotor specification



M500S-S 5000rpm/4980×g



5001 50ml×4 5000rpm/4980×g



5002 100ml×4 5000rpm/4600×g



5003 50ml×8 4000rpm/3040×g



5004 10/15ml×24 4000rpm/3040×g



5005 10/15ml×32 4000rpm/3040×g



5006 5ml×48 4000rpm/3040×g



5007 5ml×64 4000rpm/3040×g



5008 3/5/7ml×72 4000rpm/3040×g



5010 Micro 4×2×96 Deep 2×2×96 4000rpm/2860×g



5011 15ml×12 6000rpm/5150×g



5012 50ml×8 6000rpm/5150×g



5013 15ml×30 5000rpm/4100×g



5006.1 3ml



5011.1 5ml



5011.2 8ml



5012.1 15ml



5004.1 15ml



5001.1 50ml



5R-5.1 5ml

Technical Specification

Model	TLS-5S		
Power supply	AC220V/50 ~ 60Hz/AC120V		
Input power	450W		
Maximum capacity	480ml(15ml×32)		
Speed ra nge			
Acc uracy	±20rpm		
Max. RPM	5150×g/10×g		
Motor	Maintenance-free brushless DC		
Time	1-99hour/1-59min/1-59sec; three models; Accuracy ±1s		
Drive control system	FOC vector sine wave drive		
Display mode	5-inch LCD high-brightness black background with white letter		
Control method	Physical buttons + knobs		
Program	10 built-in storage programs/5 panel shortcut program calls		
Door cover locking method	Electronically controlled automatic suction double lock		
Fastest acceleration time	30s/9 shifts		
Fastest deceleration time	25s/10 shifts, 0 gear free stop		
Dimension(W×D×H)	418mm×516mm×338mm		
Weight (w/o rotor)	36Kg		
Niose level at max speed (≈)	≤65dB(A)		
Protection level	IP20		
Environment temp. and humidty	+5~40°C/80%		
Interference suppression standards	EN 61010-1, EN 61010-2-020, EN 61326-1, EN 61010-3-2/A2		

Rotor information

L.05.004		-	Main unit	Standard
L.03.001	5001	PP round/conical with cap	M500S-S	Optional
L.03.003	5002	PP round with cap	M500S-S	Optional
L.03.002	5003	PP round/conical with cap	M500S-S	Optional
L.03.004	5004	PP round/conical with cap	M500S-S	Optional
L.03.005	5005	PP round/conical with cap	M500S-S	Optional
L.03.006	5006	Vacuum tubes 13×100mm	M500S-S	Optional
L.03.007	5007	Vacuum tubes13×100mm	M500S-S	Optional
L.03.008	5008	G	M500S-S	Optional
L.06.008	5010	Microplate 4×2×96/deep 2×2×96	Main	Optional
L.06.009	5011	PP round/conical with cap	Main	Optional
L.03.017	5012	PP round/conical with cap	Main	Optional
L.06.020	5013	PP round/conical with cap	Main	Optional
L.02.001	5006.1	Vac uum tubes 13×75mm	5006/5007	Standard
L.02.002	5011.1	Vacuum tubes 13×100mm	5004/5005/5011	Optional
L.06.017	5011.2	Vacuum tubes 16×100mm	5004/5005/5011	Optional
L.06.018	5012.1	PP conical with cap	5012	Optional
B.01.042	5004.1	PP conical with cap	5004/5005/5011	Optional
B.04.024	5001.1	PP conical with cap	5001/5003/5012	Optional
B.07.021	5005.1	Vac uum tubes 13×100mm	5005	Optional

Note: Room temp @ 23℃