TGL21 Desktop Universal Refrigerated Centrifuge for High and Low Speeds

Desktop high speed freezing centrifuge is used for bacteria, protein precipitation, nucleic acid extraction, subcellular component separation, clinical test sample processing, blood, suitable for medical, life sciences, biopharmaceutical, agricultural sciences, environmental protection and other scientific research units, as well as universities and colleges







Features

- It adopts a high-torque brushless variable-frequency motor, featuring maintenance-free operation, no dust generation, and fast acceleration/deceleration
- Equipped with an inductive electric self-priming door lock and an emergency door opening device; it has self-inspection and protection functions for door lock status, overspeed, and imbalance, ensuring safety and reliability
- Controlled by a microprocessor for precise operation, it is equipped with a clear red digital display and button-based programming. It simultaneously displays the rotor number, program number, rotation speed/centrifugal force, running time, temperature, and acceleration/deceleration gears in real time; parameters can also be modified during operation
- Adopting an imported custom-made fluorine-free compressor unit, the centrifugal chamber is wrapped with high-quality copper tubes, using full tin soldering technology and a dual-circulation pipeline—greatly improving refrigeration efficiency, which can lower the temperature from room temperature (25°C) to 4°C within 4 minutes. The "automatic constant temperature control system adjustment technology" is used for precise temperature control
- It can store and recall 10 sets of commonly used programs, and provides 10 acceleration rates and 10 deceleration rates for users to choose flexibly, so as to achieve the optimal centrifugation effect
- It uses a unique spring taper sleeve to connect the rotor and the main shaft, which locks the rotor at 360 degrees. The rotor can be installed and removed without direction restrictions, making the operation fast and simple (with technical patent)
- The whole machine is made of all-steel structure, with a 304 stainless steel centrifugal chamber and a multi-layer protection design, ensuring safety and reliability; it also has three-level vibration reduction and automatic balancing functions
- The instrument door cover is equipped with double hydraulic rods to reduce operating load; the front-mounted operation panel and the door cover that opens backward conform to ergonomics, ensuring comfortable operation
- It has CFDA filing and CFDA production qualifications, and has passed certifications such as ISO9001, ISO13485, and CE

Specifications

TGL21 Technical Parameters:

Max Speed	16000rpm	Max RCF	20600×g
Max Volume	6×100ml Angle rotor	Speed Accuracy	±10rpm
Temperature Range	-20℃ ~ 40℃	Timer	1min ~ 99h59min
Temperature Accuracy	±1℃	Noise	≤650dBA
Power Supply	AC220V, 50HZ, 15A	Net Weight	118kg
Dimension	675×725×400mm	Package	930×830×580mm

TGL21 Matched Rotors:

Rotors No.	Rotor Type	Max Speed	Max Volume	Max RCF	Notes
No 05105	Angle rotor	18000rpm	30×0.5ml	26660×g	Optional
No 05106	Angle rotor	15000rpm	40×0.5ml	22930×g	Optional
No 05101	Angle rotor	21000rpm	12×1.5/2ml	30910×g	Universal for 1.5/2ml Tubes
No 05102	Angle rotor	18000rpm	24×1.5/2ml	29670×g	Universal for 1.5/2ml Tubes
No 05103	Angle rotor	13500rpm	30×1.5/2ml	19340×g	Universal for 1.5/2ml Tubes
No 05104	Angle rotor	13000rpm	48×1.5/2ml	17930×g	Universal for 1.5/2ml Tubes
No 05107	Angle rotor	16000rpm	16×5ml	22020×g	Optional
No 05108	Angle rotor	16000rpm	12×7ml	21380×g	Optional
No 05109	Angle rotor	16000rpm	6×10ml	21500×g	Optional
No 05110	Angle rotor	15000rpm	12×10ml	22680×g	Optional
No 05113	Angle rotor	13000rpm	8×15ml	17790×g	For 15ml Conical-Bottom Tubes
No 05114	Angle rotor	10000rpm	12×15ml	11840×g	For 15ml Conical-Bottom Tubes
No 05116	Angle rotor	12000rpm	8×20ml	14510×g	Optional
No 05117	Angle rotor	14000rpm	6×30ml	19060×g	Optional
No 05120	Angle rotor	13000rpm	6×50ml	18840×g	Specify Conical/Round Bottom in Order
No 05122	Angle rotor	8000rpm	8×50ml	8090×g	Specify Conical/Round Bottom in Order
No 05128	Angle rotor	12000rpm	4×100ml	14850×g	Optional
No 05129	Angle rotor	12000rpm	6×100ml	16390×g	Optional
No 05131	Angle rotor	8000rpm	4×250ml	9090×g	Optional
No 05132	Angle rotor	7000rpm	6×250ml	8050×g	Optional
No 05607	Swing-out rotor	4000rpm	4×25×5/7ml	3450×g	Universal for 2-7ml Blood Collection Tubes
	Swing-out rotor	4000rpm	4×800ml (Round Cup)	3450×g	Biosafety Lid Optional
/	Adapter	/	4×500ml (Conical Bottom)	/	Dedicated for Corning Bottles
/	Adapter	/	4×24×5/7ml	/	Universal for 2-7ml Blood Collection Tubes
/	Adapter	/	4×19×10ml	/	Dedicated for 10ml Blood Collection Tubes
/	Adapter	/	4×14×10/15ml	/	For 10/15ml Centrifuge Tubes
/	Adapter	/	4×5×50ml Centrifuge Tubes	/	For 50ml Centrifuge Tubes
No 05608	Swing-out rotor	4000rpm	4×500ml (Round Cup)	3530×g	Biosafety Lid Optional
/	Adapter	/	4×18×5/7ml	/	Universal for 2-7ml Blood Collection Tubes
/	Adapter	/	4×14×10ml	/	Dedicated for 10ml Blood Collection Tubes
/	Adapter	/	4×9×10/15ml Centrifuge Tubes	/	For 10/15ml Centrifuge Tubes
/	Adapter	/	4×3×50ml Centrifuge Tubes	/	For 50ml Centrifuge Tubes
No 05609	Swing-out rotor	4000rpm	4×500ml (Square Cup)	3450×g	Biosafety Lid Optional
/	Adapter	/	4×20×5/7ml Blood Collection Tubes	/	Universal for 2-7ml Blood Collection Tubes
/	Adapter	/	4×16×10ml Blood Collection Tubes	/	Dedicated for 10ml Blood Collection Tubes
/	Adapter	/	4×12×10/15ml Centrifuge Tubes	/	For 10/15ml Centrifuge Tubes
/	Adapter	/	4×5×50ml Centrifuge Tubes	/	For 50ml Centrifuge Tubes
No 05611	Swing-out rotor	4000rpm	4×4×96-Well Microplates	2940×g	Optional
No 05610			4×7×50ml	3470×g	For 50ml Conical-Bottom Tubes
No 05218	Swing-out Rotor Body	5000rpm	/	/	Optional
No 05629	Adapter Bucket for Swing-out Rotor Body		4×1×50ml	4730×g	Optional
No 05630			4×1×100ml	4730×g	Optional
No 05635		4000rpm	4×2×100ml	3020×g	Optional
No 05634			4×2×50ml	3200×g	Optional
No 05631			4×8×15ml	3200×g	Universal for 5-15ml Tubes
No 05639			4×16×5ml Blood Collection Tubes	2530×g	Dedicated for 2-4ml Blood Collection Tubes
No 05638			4×16×7ml Blood Collection Tubes	2890×g	Dedicated for 5-7ml Blood Collection Tubes
No 05640			4×12×10ml Blood Collection Tubes	2880×g	Dedicated for 10ml Blood Collection Tubes
No 05614	Swing-out rotor	4000rpm	4×30×7ml Blood Collection Tubes	3160×g	Dedicated for 5-7ml Blood Collection Tubes
No 05615			4×40×7ml Blood Collection Tubes	3270×g	Dedicated for 5-7ml Blood Collection Tubes
No 05618			4×28×10ml Blood Collection Tubes	3270×g	Dedicated for 10ml Blood Collection Tubes