

Refrigerated | High speed | Benchtop



Order No.:010111700

TGL-17

TGL-17 is a intelligent, versatile high speed refrigerated centrifuge runs up to 18500rpm. The centrifuge is a large capacity model which can accommodate 0.2ml to 250ml tube/bottle. Fixed angle rotors are compatible with tubes 0.2ml to 100ml. Swing out rotors are compatible with 1.5ml to 250ml tube or bottle, blood tube and microplate. With its leading technologies and many user-friendly functions, it can perfectly meet your centrifugal needs.

We solve two core safety risks

Risk one:Overspeed operation

Solution: Automatic rotor identification to prevent over speed operation

Automatic rotor identification by RFID

1. Static identification. Just put in the rotor, recognize rotor without running.
2. Prevent overspeed. User cannot set RPM/RCF over the rotor's limit.
3. More information. Besides rotor's max speed, centrifuge can identify information such as rotor capacity, production time and remaining life time.
4. Can recognize much more rotors

Risk two:Unbalanced operation

Solution: Imbalance detection in the whole operation process & automatically stop

Imbalance sensor:Three axis gyroscope

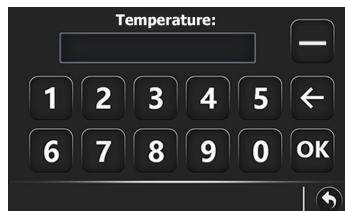
1. Detect imbalance in the whole operation process.
2. Adjust imbalance point automatically.
3. Automatic stop when reach imbalance point.
4. Imbalance detection is more accurate



LCD touch screen

- >Simple and clear to show all parameters
- >Touch screen, easy to set parameters
- >RCF can be set directly
- >Intelligent status display, real-time and real values
- >User can set parameters even with gloves
- >User can reset parameters when rotor is spinning

PROGRAM	ROTOR	SPEED	TIME	TEMP	ACC/DEC
001	cx	12X1.5mL	10000 rpm	00:05:00	4 02/02
002		24X2mL	1001 rpm	00:05:00	4 02/02
003		12X1.5mL	1001 rpm	00:05:00	4 02/05
004		12X1.5mL	1001 rpm	00:05:00	4 02/03
005		12X1.5mL	1001 rpm	00:05:00	4 02/02



1	2	3	4	5	6	7
Speed	12000	15000	11000	8000	9000	10000
Time	00:01:00	00:01:00	00:01:00	00:01:00	00:01:00	00:01:00
Temp	4	4	4	4	4	4
Rotor	12X1.5mL	Acc	02	Dec	04	Add
						Del

Sys Prompt	ON	OFF	TEMP CTRL System	OFF	ECO	PERF
Key Prompt	ON	OFF	ScreenBlank Time	△ 10s	▽	
Password Lock	ON	OFF	Unbalanced Sensitivity	△ 0	▽	
Timekeeping	When reach speed	When start running	Screen Lock Time	△ 0s	▽	

FEATURES

User-friendly functions

- >up to 1000 user-defined programs
- >up to 100000 run histories
- >up to 40 rates acceleration and deceleration, speed down curvily slowly from 600rpm to 0rpm to prevent samples shake
- >up to 7 stages multi-stage centrifugation mode available
- >up to 99h59m59s timer range, 1s increment
- >Support short spin and continuous centrifugation
- >Reservation: can reserve cooling, turn on and turn off time
- >Curve display---Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.

Refrigeration

- >High quality compressor unit
- >-20°C to +40°C, 1°C increment
- >±1°C high temperature accuracy
- >CFC-free refrigerant
- >PID dynamic temperature control
- >Temperature sensor inside the chamber
- >Starts refrigeration when power on
- >Maintains refrigeration after spin
- >With ECO energy-saving module

Ensure safety

- >Automatic rotor identification by RFID
- >Imbalance detection by three axis gyroscope
- >Motorized electronic door lock
- >Door cannot be opened when rotor is spinning
- >Gas hinge to prevent door falling
- >Port in the door for calibration and operation checking
- >Emergency door lock release
- >Password to lock the device
- >User management with permission allocation
- >Various protections to ensure safe centrifugation
- >With never be lost electronic instruction manual

Good components

- >Motor: Variable frequency motor, stable running, maintenance free, long life
- >Housing: Thick and strong steel
- >Chamber: 316 stainless steel with teflon coating, anticorrosion and easy to clean
- >Rotor: Aluminum alloy fixed angle rotor; Steel/Stainless steel swing out rotor.
- >Rotors are autoclavable

TECHNICAL DATA

Max Speed	18500rpm
Max RCF	30025xg
Max Capacity	4x250ml
Temperature Range	-20°C ~ +40°C
Temperature Accuracy	±1°C
Speed Accuracy	±10rpm
Time Setting	1s ~ 99h59m59s
Noise	≤56dB(A)
Power Consumption	1200w
Dimension	580x640x375mm
Weight	84kg

■ AVAILABLE ROTORS



Order No.:10101200020

Rotor:Fixed angle rotor
Capacity:12×1.5/2.2ml
Max speed:18500rpm
Max RCF:23952×g
Tube size:Φ11×42mm



Order No.:10101200050

Rotor:Fixed angle rotor
Capacity:12x 5ml
Max speed:15000rpm
Max RCF:18287×g
Tube size:Φ14×54mm



Order No.:10102400020

Rotor:Fixed angle rotor
Capacity:24×1.5/2.2ml
Max speed:15000rpm
Max RCF:21809×g
Tube size:Φ11×42mm



Order No.:10102400021

Rotor:Fixed angle rotor (aerosol tight)
Capacity:24×1.5ml/2.2ml
Max speed:17600rpm
Max RCF:30025×g
Tube size:Φ11×42mm



Order No.:10101200100

Rotor:Fixed angle rotor
Capacity:12×10ml
Max speed:14000rpm
Max RCF:18121×g
Tube size:Φ16×86mm



Order No.:10103600020

Rotor:Fixed angle rotor
Capacity:36×1.5/2.2ml
Max speed:13000rpm
Max RCF:16362×g
Tube size:Φ11×42mm



Order No.:10100600502

Rotor:Fixed angle rotor
Capacity:6×50ml
conical bottom
Max speed:12000rpm
Max RCF:15712×g
Tube size:Φ29×116mm



Order No.:10100600503

Rotor:Fixed angle rotor
Capacity:6×50ml
round bottom
Max speed:12000rpm
Max RCF:15712×g
Tube size:Φ29×111mm



Order No.:10104800020

Rotor:Fixed angle rotor
Capacity:48×1.5/2.2ml
Max speed:12000rpm
Max RCF:15793×g
Tube size:Φ11×42mm



Order No.:10100401000

Rotor:Fixed angle rotor
Capacity:4×100ml
Max speed:11000rpm
Max RCF:13365×g
Tube size:Φ38×123mm



Order No.:10100800502

Rotor:Fixed angle rotor
Capacity:8×50ml
conical bottom
Max speed:11000rpm
Max RCF:14041×g
Tube size:Φ29×116mm



Order No.:10101200150

Rotor:Fixed angle rotor
Capacity:12×15ml
Max speed:12000rpm
Max RCF:15906×g
Tube size:Φ17×121mm



Order No.:10100600100

Rotor:Fixed angle rotor
Capacity:6×10ml
Max speed:16000rpm
Max RCF:19004×g
Tube size:Φ16×86mm



Order No.:10100800150

Rotor:Fixed angle rotor
Capacity:8×15ml
Max speed:13000rpm
Max RCF:14945×g
Tube size:Φ17×121mm



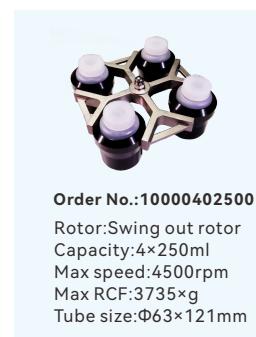
Order No.:10100600300

Rotor:Fixed angle rotor
Capacity:6×30ml
Max speed:13000rpm
Max RCF:15927×g
Tube size:Φ25.5×100mm



Order No.:10000600024

Rotor: Microplate rotor
Capacity:2×3×96 well plate
Max speed:4000rpm
Max RCF:2003×g
max: 128×87×60mm



Order No.:10000402500

Rotor: Swing out rotor
Capacity:4×250ml
Max speed:4500rpm
Max RCF:3735×g
Tube size:Φ63×121mm



Order No.:10200800502

Adapter in 4x250ml
Capacity:8×50ml
Max speed:4500rpm
Max RCF:3735×g
Tube size:Φ29.5×116mm



Order No.:10202000150

Adapter in 4x250ml
Capacity:20×15ml
Max speed:4500rpm
Max RCF:3735×g
Tube size:Φ17×121mm



Order No.:10203600100

Adapter in 4x250ml
Capacity:36×10ml
Max speed:4500rpm
Max RCF:3735×g
Tube size:Φ16.5×86~110mm



Order No.:10204000077

Adapter in 4x250ml
Capacity:40×7ml blood tube
Max speed:4500rpm
Max RCF:3735×g
Tube size:Φ13×100mm