

Refrigerated | High speed | Benchtop

TGL-17



Order No.:010111700

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

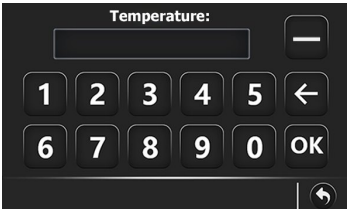
- 1. Detect imbalance in the whole operation process.
- 2. Adjust imbalance point automatically.
- 3. Automatic stop when reach imbalance point.
- 4. Imbalance detection is more accurate



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 | 10000rpm | 00:05:00 | 4 02/02 |
| 002 | | 24X2mL | 1001rpm | 00:05:00 | 4 02/02 |
| 003 | | 12X1.5mL | 1001rpm | 00:05:00 | 4 02/05 |
| 004 | | 12X1.5mL | 1001rpm | 00:05:00 | 4 02/03 |
| 005 | | 12X1.5mL | 1001rpm | 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 downs curvelly 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






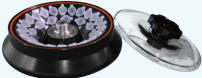















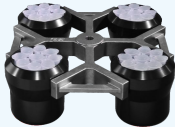

Good components

- >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

| | | | | |
|--|---|---|--|---|
|  <p>Order No.:10101200020 Rotor:Fixed angle rotor Capacity:12×1.5/2.2ml Max speed:18500rpm Max RCF:23952×g Tube size:Φ11×42mm</p> |  <p>Order No.:10101200050 Rotor:Fixed angle rotor Capacity:12×5ml Max speed:15000rpm Max RCF:18287×g Tube size:Φ14×54mm</p> |  <p>Order No.:10102400020 Rotor:Fixed angle rotor Capacity:24×1.5/2.2ml Max speed:15000rpm Max RCF:21809×g Tube size:Φ11×42mm</p> |  <p>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</p> |  <p>Order No.:10101200100 Rotor:Fixed angle rotor Capacity:12×10ml Max speed:14000rpm Max RCF:18121×g Tube size:Φ16×86mm</p> |
|  <p>Order No.:10103600020 Rotor:Fixed angle rotor Capacity:36×1.5/2.2ml Max speed:13000rpm Max RCF:16362×g Tube size:Φ11×42mm</p> |  <p>Order No.:10100600502 Rotor:Fixed angle rotor Capacity:6×50ml conical bottom Max speed:12000rpm Max RCF:15712×g Tube size:Φ29×116mm</p> |  <p>Order No.:10100600503 Rotor:Fixed angle rotor Capacity:6×50ml round bottom Max speed:12000rpm Max RCF:15712×g Tube size:Φ29×111mm</p> |  <p>Order No.:10104800020 Rotor:Fixed angle rotor Capacity:48×1.5/2.2ml Max speed:12000rpm Max RCF:15793×g Tube size:Φ11×42mm</p> |  <p>Order No.:10100401000 Rotor:Fixed angle rotor Capacity:4×100ml Max speed:11000rpm Max RCF:13365×g Tube size:Φ38×123mm</p> |
|  <p>Order No.:10100800502 Rotor:Fixed angle rotor Capacity:8×50ml conical bottom Max speed:11000rpm Max RCF:14041×g Tube size:Φ29×116mm</p> |  <p>Order No.:10100800503 Rotor:Fixed angle rotor Capacity:8×50ml round bottom Max speed:11000rpm Max RCF:13365×g Tube size:Φ29×111mm</p> |  <p>Order No.:10101200150 Rotor:Fixed angle rotor Capacity:12×15ml Max speed:12000rpm Max RCF:15906×g Tube size:Φ17×121mm</p> |  <p>Order No.:10100600100 Rotor:Fixed angle rotor Capacity:6×10ml Max speed:16000rpm Max RCF:19004×g Tube size:Φ16×86mm</p> |  <p>Order No.:10100800150 Rotor:Fixed angle rotor Capacity:8×15ml Max speed:13000rpm Max RCF:14945×g Tube size:Φ17×121mm</p> |
|  <p>Order No.:10100600300 Rotor:Fixed angle rotor Capacity:6×30ml Max speed:13000rpm Max RCF:15927×g Tube size:Φ25.5×100mm</p> |  <p>Order No.:10101200502 Rotor: Fixed angle rotor Capacity:12×50ml conical bottom Max speed:8000rpm Max RCF:9158×g Tube size: 29×116mm</p> |  <p>Order No.:10000600024 Rotor: Microplate rotor Capacity:2×3×96 well plate Max speed:4000rpm Max RCF:2003×g max: 128×87×60mm</p> |  <p>Order No.:10000402500 Rotor:Swing out rotor Capacity:4×250ml Max speed:4500rpm Max RCF:3735×g Tube size:Φ63×121mm</p> |  <p>Order No.:10200800502 Adapter in 4x250ml Capacity:8×50ml Max speed:4500rpm Max RCF:3735×g Tube size:Φ29.5×116mm</p> |
|  <p>Order No.:10202000150 Adapter in 4x250ml Capacity:20×15ml Max speed:4500rpm Max RCF:3735×g Tube size:Φ17×121mm</p> |  <p>Order No.:10203600100 Adapter in 4x250ml Capacity:36×10ml Max speed:4500rpm Max RCF:3735×g Tube size:Φ16.5×86~110mm</p> |  <p>Order No.:10204000077 Adapter in 4x250ml Capacity:40×7ml blood tube Max speed:4500rpm Max RCF:3735×g Tube size:Φ13×100mm</p> | | |