

Ventilated | High speed | Benchtop

# TG-1850



Order No.:0102090000

This benchtop centrifuge has been developed for large sample volumes. It has swing out rotors and fixed angle rotors, swing out rotors has a maximum capacity of 4 x 500 ml bottles, 112 blood tubes, 4x2x96 well plates or 40 x 15 ml conical tubes, fixed angle rotors can run 0.2ml to 100ml.

## FEATURES

### User-friendly functions

- >12 user-defined programs
- >19 rates acceleration and deceleration
- >1s to 9999min59s timer range
- >LCD screen shows all parameters simply and clearly
- >RCF can be set directly
- >RPM and RCF covert automatically
- >User can reset parameters when rotor is spinning

### Ensure safety

- >Automatic rotor recognition to prevent overspeed
- >Imbalance detection by three axis gyroscope
- >Microprocessor control
- >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

### Good components

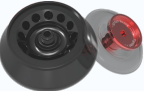
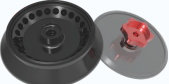
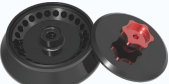
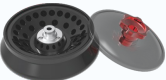
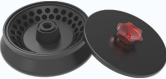
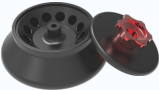
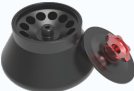
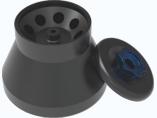
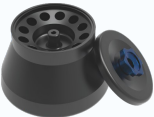
- >Motor: Brushless variable frequency motor.  
stable running,maintenance free,long life
- >Housing: Thick and strong steel
- >Chamber: Food grade 304 stainless steel.  
anticorrosion and easy to clean
- >Rotor: Aluminum alloy fixed angle rotor;  
Steel/Stainless steel swing out rotor.
- >Rotors are autoclavable



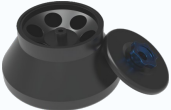
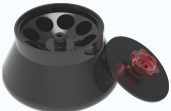
## TECHNICAL DATA

|                |               |                   |               |
|----------------|---------------|-------------------|---------------|
| Max Speed      | 18500rpm      | Noise             | ≤65dB(A)      |
| Max RCF        | 24760xg       | Voltage           | 220v          |
| Max Capacity   | 4x500ml       | Power Consumption | 750w          |
| Speed Accuracy | ±10rpm        | Dimension(WxDxH)  | 450x550x390mm |
| Time setting   | 1s ~ 9999m59s | Weight            | 49kg          |

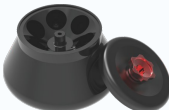
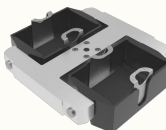
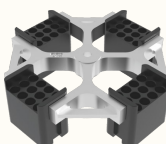
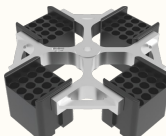
AVAILABLE ROTORS

| Fixed angle rotor                                                                   |                             |            |                  |                                      |            |
|-------------------------------------------------------------------------------------|-----------------------------|------------|------------------|--------------------------------------|------------|
| Rotor                                                                               | Capacity                    | Order No.  | Max speed/RCF    | Adaptor                              |            |
|                                                                                     |                             |            |                  | Capacity                             | Order No.  |
|    | 12×1.5/2ml                  | 0494020200 | 18500rpm/23800×g | 12×1×0.2ml                           | 1101010001 |
|                                                                                     |                             |            |                  | 12×1×0.5ml                           | 1101010002 |
|    | 24×1.5/2ml                  | 0494020600 | 15000rpm/21630×g | 24×1×0.2ml                           | 1101010001 |
|                                                                                     |                             |            |                  | 24×1×0.5ml                           | 1101010002 |
|    | 24×1.5/2ml<br>aerosol tight | 0494020500 | 16000rpm/24760×g | 24×1×0.2ml                           | 1101010001 |
|                                                                                     |                             |            |                  | 24×1×0.5ml                           | 1101010002 |
|   | 36×1.5/2ml                  | 0494020800 | 13000rpm/15620×g | 36×1×0.2ml                           | 1101010001 |
|                                                                                     |                             |            |                  | 36×1×0.5ml                           | 1101010002 |
|  | 48×1.5/2ml                  | 0494020900 | 12000rpm/15970×g | 48×1×0.2ml                           | 1101010001 |
|                                                                                     |                             |            |                  | 48×1×0.5ml                           | 1101010002 |
|  | 12×5ml<br>round bottom      | 0494030200 | 15000rpm/18270×g | 12×1×1.8ml<br>frozen storage<br>tube | 1101020002 |
|                                                                                     |                             |            |                  | 12×1×2ml<br>frozen storage<br>tube   | 1101020004 |
|                                                                                     |                             |            |                  | 12×1×2ml                             | 1101020001 |
|  | 12×10ml<br>round bottom     | 0494040200 | 13000rpm/15620×g | 12×1×2ml                             | 1101030001 |
|                                                                                     |                             |            |                  | 12×1×5ml                             | 1101030002 |
|  | 8×15ml<br>conical bottom    | 0494050100 | 13000rpm/15620×g | 8×1×5ml                              | 1101040001 |
|                                                                                     |                             |            |                  | 8×1×10ml                             | 1101040002 |
|  | 12×15ml<br>conical bottom   | 0494050200 | 10000rpm/10640×g | 12×1×5ml                             | 1101040001 |
|                                                                                     |                             |            |                  | 12×1×10ml                            | 1101040002 |

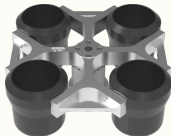
AVAILABLE ROTORS

| Fixed angle rotor                                                                   |                          |            |                  |                          |                                                                           |
|-------------------------------------------------------------------------------------|--------------------------|------------|------------------|--------------------------|---------------------------------------------------------------------------|
| Rotor                                                                               | Capacity                 | Order No.  | Max speed/RCF    | Adaptor                  |                                                                           |
|                                                                                     |                          |            |                  | Capacity                 | Order No.                                                                 |
|    | 6×50ml<br>round bottom   | 0494070100 | 12000rpm/15970×g | 6×1×2ml                  | 1101060003                                                                |
|                                                                                     |                          |            |                  | 6×1×5ml                  | 1101060004                                                                |
|                                                                                     |                          |            |                  | 6×1×10ml                 | 1101060001                                                                |
|                                                                                     |                          |            |                  | 6×1×15ml<br>conical tube | 1101060005                                                                |
|                                                                                     |                          |            |                  | 6×1×30ml                 | 1101060002                                                                |
|   | 6×50ml<br>conical bottom | 0494070200 | 12000rpm/15970×g | 6×1×2ml                  | 1101070003                                                                |
|                                                                                     |                          |            |                  | 6×1×5ml                  | 1101070004/conical tube<br>1101070005/round tube                          |
|                                                                                     |                          |            |                  | 6×1×7ml                  | 1101070012                                                                |
|                                                                                     |                          |            |                  | 6×1×10ml                 | 1101070006/glass tube<br>1101070007/conical tube<br>1101070008/round tube |
|                                                                                     |                          |            |                  | 6×1×15ml<br>conical tube | 1101070001                                                                |
|                                                                                     |                          |            |                  | 6×1×25ml                 | 1101070010                                                                |
|                                                                                     |                          |            |                  | 6×1×50ml<br>round tube   | 1101070002                                                                |
|  | 8×50ml<br>round bottom   | 0494070400 | 10000rpm/10640×g | 8×1×2ml                  | 1101060003                                                                |
|                                                                                     |                          |            |                  | 8×1×5ml                  | 1101060004                                                                |
|                                                                                     |                          |            |                  | 8×1×10ml                 | 1101060001                                                                |
|                                                                                     |                          |            |                  | 8×1×15ml<br>conical tube | 1101060005                                                                |
|                                                                                     |                          |            |                  | 8×1×30ml                 | 1101060002                                                                |
|  | 8×50ml<br>conical bottom | 0494070500 | 10000rpm/10640×g | 8×1×2ml                  | 1101070003                                                                |
|                                                                                     |                          |            |                  | 8×1×5ml                  | 1101070004/conical tube<br>1101070005/round tube                          |
|                                                                                     |                          |            |                  | 8×1×7ml                  | 1101070012                                                                |
|                                                                                     |                          |            |                  | 8×1×10ml                 | 1101070006/glass tube<br>1101070007/conical tube<br>1101070008/round tube |
|                                                                                     |                          |            |                  | 8×1×15ml<br>conical tube | 1101070001                                                                |
|                                                                                     |                          |            |                  | 8×1×25ml                 | 1101070010                                                                |
|                                                                                     |                          |            |                  | 8×1×50ml<br>round tube   | 1101070002                                                                |

AVAILABLE ROTORS

| Fixed angle rotor                                                                   |                                        |            |                  |                          |                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------|------------|------------------|--------------------------|--------------------------------------------------|
| Rotor                                                                               | Capacity                               | Order No.  | Max speed/RCF    | Adaptor                  |                                                  |
|                                                                                     |                                        |            |                  | Capacity                 | Order No.                                        |
|    | 4×100ml<br>round bottom                | 0494080100 | 10000rpm/10640×g | 4×1×5ml                  | 1101080007                                       |
|                                                                                     |                                        |            |                  | 4×1×10ml                 | 1101080001                                       |
|                                                                                     |                                        |            |                  | 4×1×15ml<br>conical tube | 1101080002                                       |
|                                                                                     |                                        |            |                  | 4×1×30ml                 | 1101080003                                       |
|                                                                                     |                                        |            |                  | 4×1×50ml                 | 1101080005/conical tube<br>1101080004/round tube |
|   | 6×100ml<br>round bottom                | 0494080200 | 8000rpm/7720×g   | 6×1×5ml                  | 1101080007                                       |
|                                                                                     |                                        |            |                  | 6×1×10ml                 | 1101080001                                       |
|                                                                                     |                                        |            |                  | 6×1×15ml<br>conical tube | 1101080002                                       |
|                                                                                     |                                        |            |                  | 6×1×30ml                 | 1101080003                                       |
|                                                                                     |                                        |            |                  | 6×1×50ml                 | 1101080005/conical tube<br>1101080004/round tube |
| Swing out rotor                                                                     |                                        |            |                  |                          |                                                  |
| Rotor                                                                               | Capacity                               | Order No.  | Max speed/RCF    | Adaptor                  |                                                  |
|                                                                                     |                                        |            |                  | Capacity                 | Order No.                                        |
|  | Capacity: 2×3×96 well<br>(micro plate) | 0495011000 | 4000rpm/2146×g   | 2×24×1.5/2ml             | 1102040001                                       |
|  | Capacity: 48×2~7ml<br>blood tube       | 0495180400 | 4000rpm/3100×g   | /                        | /                                                |
|  | Capacity: 64×2~7ml<br>blood tube       | 0495180500 | 4000rpm/3100×g   | /                        | /                                                |

AVAILABLE ROTORS

| Swing out rotor                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                |                                 |            |  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------|---------------------------------|------------|--|
| Rotor body                                                                                                   | Holder                                                                                                                                                                                                                                                  | Order No.<br>(Rotor body+holder)                            | Max speed/RCF  | Adaptor                         |            |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | Capacity                        | Order No.  |  |
|                             | Capacity: 4×250ml                                                                                                                                                                                                                                       | 0495040200                                                  | 4000rpm/3100×g | 4×8×2ml                         | 0497011900 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×8×2ml<br>frozen storage tube  | 0497012300 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×8×5ml<br>round tube           | 0497012400 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×5×5ml<br>conical tube         | 0497012000 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×10×7ml<br>blood tube          | 0497012200 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×9×10ml                        | 1102050014 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×5×15ml<br>conical tube        | 0497012100 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×2×30ml<br>(glass tube)        | 1102050012 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×2×50ml                        | 1102050004 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×1×100ml                       | 1102050006 |  |
| <br>Order No.: 0495180710 | <br>Capacity: 4×500ml<br>Order No.: 1006010009<br><br>Aerosol tight lid<br>Order No.: 0495061110<br><br>Note: Aerosol tight lid cannot be used when use 500ml bottle | 0495060400<br>(without lid)<br><br>0495061300<br>(with lid) | 4000rpm/3400×g | 4×18×2ml                        | 0497012700 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×18×2ml<br>frozen storage tube | 0497012900 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×19×7ml<br>blood tube          | 0497010200 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×12×10ml                       | 0497012800 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×14×10ml<br>blood tube         | 1102070007 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×9×15ml<br>conical tube        | 0497010300 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×4×50ml<br>conical tube        | 0497010400 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×2×100ml                       | 0497013000 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×1×100ml                       | 1102070005 |  |
|                                                                                                              |                                                                                                                                                                                                                                                         |                                                             |                | 4×1×250ml                       | 1102070006 |  |

AVAILABLE ROTORS

| Swing out rotor                                                                                              |                                                                                                                                                                                                              |                                  |                |                                 |            |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|---------------------------------|------------|
| Rotor body                                                                                                   | Holder                                                                                                                                                                                                       | Order No.<br>(Rotor body+holder) | Max speed/RCF  | Adaptor                         |            |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | Capacity                        | Order No.  |
| <br>Order No.: 0495180710 | <br>Capacity: 4×500ml<br>(square bucket)<br>Order No.: 0495060510<br><br>Note: No suitable<br>bottle,must choose<br>adaptor | 0495060500                       | 4000rpm/3400×g | 4×25×2ml                        | 0497013200 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×25×2ml<br>frozen storage tube | 0497013500 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×22×5ml                        | 0497013300 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×28×7ml<br>blood tube          | 0497010100 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×20×10ml<br>blood tube         | 1102080003 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×10×15ml<br>conical tube       | 0497010500 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×6×30ml                        | 0497013400 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×5×50ml<br>conical tube        | 0497010600 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×2×100ml                       | 1102080006 |
|                                                                                                              |                                                                                                                                                                                                              |                                  |                | 4×1×250ml                       | 1102080007 |
|                                                                                                              | <br>Capacity: 4×2×96 well<br>(micro plate)<br>Order No.: 0495060610                                                       | 0495060600                       | 4000rpm/3400×g | 4×24×1.5/2ml                    | 1102040001 |
|                                                                                                              | <br>Capacity: 96×2~7ml<br>(blood tube)<br>Order No.: 0495180720                                                           | 0495180700                       | 4000rpm/3400×g | /                               | /          |
|                                                                                                              | <br>Capacity: 148×5ml<br>(RIA tube)<br>Order No.: 0496061010                                                              | 0495061000                       | 4000rpm/3400×g | /                               | /          |