

## Benchtop High Speed Refrigerated Centrifuge Model: TGL-20MB / TGL-20M

TGL-20MB and TGL-20M is a compact bench-top microliter centrifuge for medical and biological research; molecular diagnostics, biochemistry, immunology and cell technologies. It can be used for extracting RNA/DNA samples, separation of cell suspensions and other micro quantitative analyses.

### Features:

- ☆ Stainless steel chamber with guarding ring.
- ☆ Electronic safety lock prevent cover opening during centrifugation.
- ☆ Manually lid open in case of failure or emergency.
- ☆ Gas spring to prevent falling of lid.
- ☆ Imbalance fault detection with auto shutdown.
- ☆ Pre-cooling during standstill. CFC free refrigeration system (refrigerant R404A or R134A).
- ☆ Reliable drive system. Induction motor maintenance free.
- ☆ Microprocessor control of all functions: speed, time, temperature, acceleration/deceleration, rcf, \*program memory, error display.
- ☆ RPM/RCF adjustable along with the run and value calculating automatically.
- ☆ Comprehensive selection of rotors and adapters.
- ☆ Velocity hole provides a way of speed detection.
- ☆ Produced according to national and international safety standard (e.g. IEC 61010).
- ☆ ISO9001, ISO13485, CE international standards are met.
- ☆ \* Selectable: Lid open automatically at the end of run.



TGL-20MB



TGL-20M

### Technical data:

| Model                             | TGL-20MB                | TGL-20M              |
|-----------------------------------|-------------------------|----------------------|
| Screen                            | LCD color Screen        | LED Digital Screen   |
| Machine body                      | Plastic and metal frame | Metal frame          |
| Max. speed                        | 20000rpm                | 20000rpm             |
| Speed accuracy                    | ±20rpm                  | ±20rpm               |
| Max. RCF                          | 27800xg                 | 27800xg              |
| Max capacity                      | 4x100ml                 | 4x100ml              |
| Temp range                        | -20°C~+40°C             | -20°C~+40°C          |
| Temp accuracy                     | ±2°C                    | ±2°C                 |
| Timer range                       | 1min~99min59s           | 1min~99min           |
| Acceleration / Deceleration rates | 1~10                    | --                   |
| Motor                             | Converter motor         | Converter motor      |
| Motor power                       | 500W                    | 500W                 |
| Refrigerator power                | 380W                    | 380W                 |
| Power supply                      | AC220V 50/60Hz 15A      | AC220V 50/60Hz 15A   |
| Noise                             | <55db                   | <55db                |
| N.W.                              | 70kg                    | 75kg                 |
| G.W.                              | 80kg                    | 85kg                 |
| Dimension                         | 620×500×350mm(LxWxH)    | 620x480x350mm(LxWxH) |
| Packing Size                      | 720×610×450mm(LxWxH)    | 720×640×460mm(LxWxH) |

### Rotor:

|   |   |   |   |
|---|---|---|---|
| <br>No. 1 Angle Rotor    | Max. Speed : 14000rpm<br>Capacity : 4x8x0.2ml<br>Max. RCF : 13500xg<br>ØxL : 6.5x16mm       | <br>No. 2 Angle Rotor    | Max. Speed : 20000rpm<br>Capacity : 12 x 0.5ml<br>Max. RCF : 20380xg<br>ØxL : 8.4x28.5mm    |
| <br>No. 3 Angle Rotor    | Max. Speed : 14000rpm<br>Capacity : 48 x 0.5ml<br>Max. RCF : 20850xg<br>ØxL : 8.4x28.5mm    | <br>No. 4 Angle Rotor    | Max. Speed : 20000rpm<br>Capacity : 12x1.5ml/2.2ml<br>Max. RCF : 27800xg<br>ØxL : 11.2x39mm |
| <br>No. 5 Angle Rotor    | Max. Speed : 16000rpm<br>Capacity : 24x1.5ml/2.2ml<br>Max. RCF : 23800xg<br>ØxL : 11.2x39mm | <br>No. 6 Angle Rotor    | Max. Speed : 14000rpm<br>Capacity : 48x1.5ml/2.2ml<br>Max. RCF : 20850xg<br>ØxL : 11.2x39mm |
| <br>No. 7 Angle Rotor   | Max. Speed : 16000rpm<br>Capacity : 12 x 5ml<br>Max. RCF : 19320xg<br>ØxL : 14x51mm         | <br>No. 8 Angle Rotor   | Max. Speed : 15000rpm<br>Capacity : 12 x 10ml<br>Max. RCF : 19910xg<br>ØxL : 16.5x78.5mm    |
| <br>No. 9 Angle Rotor  | Max. Speed : 10000rpm<br>Capacity : 24x10ml<br>Max. RCF : 11280 xg<br>ØxL : 16x78mm         | <br>No. 10 Angle Rotor | Max. Speed : 11000rpm<br>Capacity : 12 x 15ml<br>Max. RCF : 13935xg<br>ØxL : 16.5x103mm     |
| <br>No. 11 Angle Rotor | Max. Speed : 14000rpm<br>Capacity : 4 x 50ml<br>Max. RCF : 19320xg<br>ØxL : 29.5x96mm       | <br>No. 12 Angle Rotor | Max. Speed : 13000rpm<br>Capacity : 6 x 50ml<br>Max. RCF : 18550xg<br>ØxL : 29.5x96mm       |
| <br>No. 13 Angle Rotor | Max. Speed : 11000rpm<br>Capacity : 4 x 100ml<br>Max. RCF : 13280xg<br>ØxL : 38.2x110mm     | <br>No. 14 Swing Rotor | Max. Speed : 6000rpm<br>Capacity : 4x10ml<br>Max. RCF : 4495 xg<br>ØxL : 16.5x78mm          |
| <br>No. 15 Swing Rotor | Max. Speed : 4000rpm<br>Capacity : 2x2x48 holes<br>Max. RCF : 1505xg<br>ØxL : 108x54x29mm   |   |   |