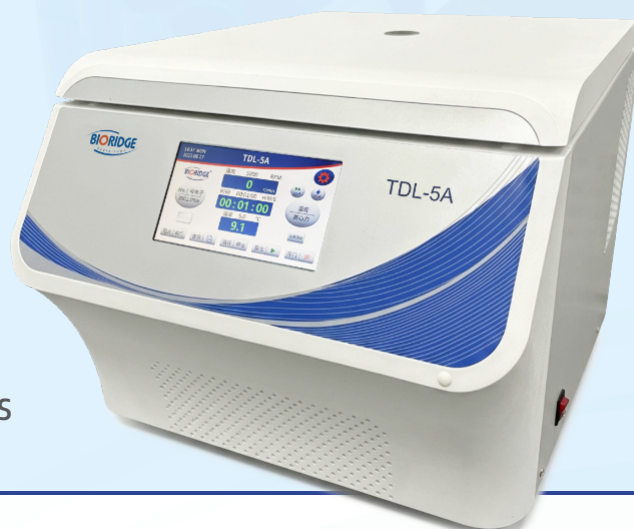




# Low-Speed Refrigerated Centrifuge TDL-5A

High-Capacity  
Precision for Low-Speed Separation &  
Cooling Performance for Daily Lab Workflows



## Features

- **Intuitive Touch Interface:** Microprocessor-controlled with an integrated 7-inch LCD touchscreen.
- **Flexible Multi-Phase Programming:** Store up to 99 customised programs, with up to 10 distinct phases per program.
- **Versatile Operational Modes:** Select between standard program mode, real-time curve mode, and preset program selection.
- **Seamless Data Management:** Onboard bulk memory with USB export capabilities and optional RS232 connectivity for external data logging.
- **Multi-User Security:** Three-level password protection for compliance and user access management.
- **Precision Speed Control:** 9 acceleration profiles and 10 deceleration stages for optimal sample protection and separation.
- **Automated Convenience:** Automatic rotor identification and motorised automatic lid latching for smooth, quiet, and low-effort operation.
- **Energy-Efficient Cooling:** Intelligent compressor standby mode reduces energy consumption when idle.
- **Comprehensive Safety Systems:** Built-in lid interlock and over-speed protection ensure safe laboratory operation.

## Technical Specifications

| Model                  | TDL-5A                     |
|------------------------|----------------------------|
| Max. Speed             | 5,000 rpm                  |
| Max. RCF               | 4,390 x g                  |
| Max. Capacity          | 4 × 500 mL                 |
| Speed Accuracy         | ±10 rpm                    |
| Temp. Range            | -20 °C to +40 °C           |
| Temp. Accuracy         | ±1 °C                      |
| Time Range             | 1 s - 99 min 59 s          |
| Compressor             | Imported, R134 Refrigerant |
| Noise                  | <65 dB (A)                 |
| Power                  | 1200 W                     |
| Voltage                | AC 220V, 50Hz              |
| Size (LxWxH)           | 750 × 480 × 420 mm         |
| Packaging Size (LxWxH) | 800 × 580 × 490 mm         |
| Net Weight             | 80 kg                      |



BR-BR-TDL-5A-V1

## Compatible Rotors

## Adapters



**TDL-5A-R1**  
4 × 100 mL  
**Max. Speed:** 5,000 rpm  
**Max. RCF:** 4,390 × g



100 mL Tube Rack  
(Set of 4)

- TDL-5A-R1-A1** Adapter 4 × 1.5 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A2** Adapter 2 × 5 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A3** Adapter 1 × 15 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A4** Adapter 1 × 50 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A5** Adapter 4 × 5 mL / 7 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A6** Adapter 3 × 10 mL Tubes, for TDL-5A-R1 (Set of 4)
- TDL-5A-R1-A7** Adapter 1 × 20 mL Tubes, for TDL-5A-R1 (Set of 4)



**TDL-5A-R2**  
Swing Out Rotor  
8 × 15 mL (Set of 4)  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 2,810 × g



**TDL-5A-R2-B1**  
Bucket for 2 × 50 mL  
for TDL-5A-R2 Rotor  
(Set of 4)



**TDL-5A-R2-B2**  
Bucket for 6 × 15 mL  
for TDL-5A-R2 Rotor  
(Set of 4)



**TDL-5A-R2-B3**  
Bucket for 4 × 15 mL  
for TDL-5A-R2 Rotor  
(Set of 4)



**TDL-5A-R2-B4**  
Bucket for 8 × 15 mL  
for TDL-5A-R2 Rotor  
(Set of 4)



**TDL-5A-R2-B5**  
Bucket for 2 × 100 mL  
for TDL-5A-R2 Rotor  
(Set of 4)



**TDL-5A-R3**  
Swing Out Rotor  
18 × 7 mL Bucket (Set of 4)  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 3,200 × g



**TDL-5A-R3-A1**  
Bucket suitable for  
12 × 7 mL Tubes  
(Set of 4)



**TDL-5A-R4**  
Microplate Rotor  
Suitable for 4 Plates  
2 × 2 × 96 Well  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 2,200 × g



**TDL-5A-R8**  
Swing Out Rotor  
4 × 500 mL Buckets  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 3,040 × g



**TDL-5A-R8-A1**  
Adapter for  
18 × 1.5 mL Tubes  
(Set of 4)



**TDL-5A-R8-A2**  
Adapter for  
19 × 5 mL / 7 mL Tubes  
(Set of 4)



**TDL-5A-R8-A3**  
Adapter for  
14 × 10 mL Tubes  
(Set of 4)



**TDL-5A-R8-A4**  
Adapter for  
9 × 15 mL Tubes  
(Set of 4)



**TDL-5A-R8-A5**  
Adapter for  
7 × 20 mL Tubes  
(Set of 4)

## Compatible Rotors



**TDL-5A-R8-A6**  
Adapter for  
3 × 50 mL Tubes  
(Set of 4)



**TDL-5A-R8-A7**  
Adapter for  
1 × 100 mL Tubes  
(Set of 4)



**TDL-5A-R8-A8**  
Adapter for  
1 × 250 mL Tubes  
(Set of 4)



**TDL-5A-R8-BOT**  
Bottle 500 mL  
for 500 mL Bucket  
(Set of 4)



**TDL-5A-R8-M**  
Microplate Carrier  
for 2 × 96 Well Plates  
(Set of 4)



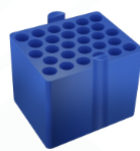
**TDL-5A-R9**  
Swing Out Rotor with  
4 × 500 mL  
Round Aerosol Bucket and Lids  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 3,040 × g



**TDL-5A-R10**  
Swing Out Rotor with  
4 × Rectangular Buckets  
**Max. Speed:** 4,000 rpm  
**Max. RCF:** 3,040 × g



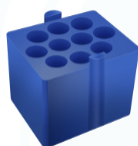
**TDL-5A-R10-A1**  
Adapter 25 × 1.5 mL  
for Rectangular Buckets  
(Set of 4)



**TDL-5A-R10-A2**  
Adapter 28 × 5 mL  
for Rectangular Buckets  
(Set of 4)



**TDL-5A-R10-A3**  
Adapter 20 × 10 mL  
for Rectangular Buckets  
(Set of 4)



**TDL-5A-R10-A4**  
Adapter 10 × 15 mL  
for Rectangular Buckets  
(Set of 4)



**TDL-5A-R10-A5**  
Adapter 4 × 50 mL  
for Rectangular Buckets  
(Set of 4)



**TDL-5A-R10-A6**  
Adapter 1 × 250 mL  
for Rectangular Buckets  
(Set of 4)

Contact us today to learn how the TDL-5A can optimise your workflow.