

 LABTRON

# *High Speed*

# *Centrifuge*

**LHS-A23**



## High Speed Centrifuge LHS-A23

High Speed Centrifuge LHS-A23 is a benchtop model which can accommodate both low speed and high speed rotors. Comes with LED display for speed and time. Brushless DC motor makes the unit maintenance free and facilitates smooth and low noise operation.

### Features:

- ✓ Compact design with low noise operation
- ✓ 10 kinds of acceleration and deceleration
- ✓ LED display for speed, time parameters
- ✓ Brushless DC motor
- ✓ Requires low maintenance
- ✓ Over speed sensor for protection purpose

### Applications:

High speed centrifuges are widely used in protein precipitation, RNA extraction, clinical sample processing and various other separation experiments.

### Specifications:

| Model No.                  | LHS-A23                    |
|----------------------------|----------------------------|
| Max. Speed                 | 18500 rpm                  |
| Max. RCF                   | 23990 ×g                   |
| Max. Capacity              | 4×300 ml                   |
| Time Range                 | 0~99 min                   |
| RPM/RCF Convert            | Yes                        |
| Noise                      | ≤ 55 (dB)                  |
| Acceleration/ Deceleration | 10 kinds                   |
| Speed Accuracy             | ±20 rpm                    |
| Voltage                    | AC 220V/110V; 50 Hz/ 60 Hz |
| Dimension (W x D x H)      | 620×450×355 mm             |
| Net Weight                 | 55 kgs (without rotor)     |

## Rotors Selection

| Rotor Name                      | Max. Speed (rpm) | Max. Volume (ml) | Max. RCF (×g) |
|---------------------------------|------------------|------------------|---------------|
| Swing Rotor 01 (Roundbucket)    | 4000             | 4x300ml          | 3180          |
| Swing Rotor 02 (Squarebucket)   | 4000             | 4x300ml          | 3180          |
| Swing Rotor 03                  | 4000             | 4x24x7ml         | 3150          |
| Swing Rotor 04                  | 4000             | 4x24x5ml         | 2750          |
| Swing Rotor 05                  | 4000             | 4x16x10ml        | 3150          |
| Swing Rotor 06                  | 4000             | 4x22x7ml         | 3410          |
| Swing Rotor 07                  | 4000             | 4x22x5ml         | 2840          |
| Swing Rotor 08                  | 4000             | 4x18x10ml        | 3140          |
| Microplate Rotor 01 (box type)  | 4000             | 2x4x96 well      | 2770          |
| Microplate Rotor 02 (fame type) | 4000             | 2x4x96 well      | 2910          |
| Microplate Rotor 03 (fame type) | 4000             | 2x3x48well       | 2300          |
| Swing rotor 09                  | 5000             | 4x1x50ml         | 4730          |
| Swing rotor 10                  | 5000             | 4x1x100ml        | 4730          |
| Swing rotor 11                  | 4000             | 4x2x100ml        | 3020          |
| Swing rotor 12                  | 4000             | 4x2x50ml         | 3200          |
| Swing rotor 13                  | 4000             | 4x4x15ml         | 3200          |
| Swing rotor 14                  | 4000             | 4x6x15ml         | 3200          |
| Swing rotor 15                  | 4000             | 4x8x15ml         | 3200          |
| Swing rotor 16                  | 4000             | 4x8x10/7ml       | 2770          |
| Swing rotor 17                  | 4000             | 4x8x5ml adapter  | 2380          |
| Swing rotor 18                  | 4000             | 4x6x10/7ml       | 2770          |
| Swing rotor 19                  | 4000             | 4x6x5ml adapter  | 2380          |
| Swing rotor 20                  | 4000             | 4x4x10/7ml       | 2770          |
| Swing rotor 21                  | 4000             | 4x4x5ml adapter  | 2380          |
| Swing rotor 22                  | 4000             | 4x16x5ml         | 2520          |
| Swing rotor 23                  | 4000             | 4x16x7ml         | 2880          |
| Swing rotor 24                  | 4000             | 4x12x10ml        | 2880          |
| Angle Rotor 01                  | 14000            | 4x8PCR           | 12070         |
| Angle Rotor 02                  | 13000            | 6x8PCR           | 16080         |
| Angle Rotor 03                  | 14000            | 8x8PCR           | 13390         |
| Angle Rotor 04                  | 13000            | 12x8PCR          | 17220         |
| Angle Rotor 05                  | 14000            | 40x0.5ml         | 19960         |
| Angle Rotor 06                  | 18500            | 12x1.5ml         | 23990         |
| Angle Rotor 07                  | 15000            | 24x1.5ml         | 20600         |
| Angle Rotor 08                  | 13500            | 30x1.5ml         | 19340         |
| Angle Rotor 09                  | 11000            | 48x1.5ml         | 12840         |
| Angle Rotor 10                  | 15000            | 16x5ml           | 19350         |
| Angle Rotor 11                  | 14000            | 6x10ml           | 16460         |
| Angle Rotor 12                  | 13000            | 12x10ml          | 17030         |
| Angle Rotor 13                  | 11000            | 16x10ml          | 13950         |

|                   |       |                |       |
|-------------------|-------|----------------|-------|
| Angle Rotor 14    | 11000 | 8×15ml         | 12730 |
| Angle Rotor 15    | 9000  | 12×15ml        | 9590  |
| Angle Rotor 16    | 5000  | 24×15ml        | 3500  |
| Angle Rotor 17    | 5000  | 30×15ml        | 3830  |
| Angle Rotor 18    | 12000 | 6×30ml         | 14000 |
| Angle Rotor 19    | 12000 | 6×50ml(sharp)  | 16050 |
| Angle Rotor 20    | 12000 | 6×50ml(round)  | 15960 |
| Angle Rotor 21    | 5000  | 12×50ml        | 3860  |
| Angle Rotor 22    | 4000  | 24×50ml        | 2910  |
| Angle Rotor 23    | 11000 | 4×85ml         | 13560 |
| Angle Rotor 24    | 10000 | 4×100ml        | 10310 |
| Angle Rotor 25    | 8000  | 6×100ml        | 7280  |
| Angle Rotor 26    | 4000  | 12×100ml       | 2970  |
| Angle Rotor 27    | 12000 | 24 capillaries | 15800 |
| Swing Rotor 25    | 15000 | 4×5ml          | 19920 |
| Vertical rotor 01 | 16000 | 16×5ml         | 16450 |
| Vertical rotor 02 | 14000 | 8×30ml         | 19750 |