

# CENTRIFUGE

## IG-241R



**CONTACT US**

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# ABOUT THE COMPANY

iGeneLabservePvt.Ltd.is gainingrecognition by offeringresilient, innovative solutionsinlaboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

# PRODUCT OVERVIEW

The IG-241R is a compact, high-speed refrigerated centrifuge designed for reliable and precise sample separation in biochemistry, biological product, pharmaceutical and laboratory applications. It combines high-speed performance, temperature control, programmable operation and multiple rotor options in a compact tabletop design.

# KEY FEATURES

- **High-Speed Performance:** Maximum speed up to 16,000 rpm with maximum RCF of 19,040 xg.
- **Brushless Frequency Motor:** Maintenance-free motor with high torque, rapid acceleration and deceleration, and low vibration.
- **Advanced Refrigeration:** Fluorine-free imported compressor with double-cycle cooling for precise temperature control.
- **Microprocessor Control:** Digital/LCD display for monitoring temperature, speed, time and RCF.
- **Programmable Operation:** Stores up to 99 programs, including 4 direct-access program buttons.
- **Flexible Acceleration/Deceleration:** 10 acceleration and deceleration profiles for optimized centrifugation.
- **Pre-Cooling & Pulse Function:** Enables rapid chamber pre-cooling and short-spin operation.
- **Comprehensive Safety:** Automatic lid locking with overspeed, over-temperature and imbalance protection.
- **Durable Construction:** High-quality steel body with stainless-steel chamber and explosion-proof protective sleeve.
- **Low-Vibration Operation:** Flexible direct-drive system with multi-level damping for smooth and stable centrifugation.
- **Compact Tabletop Design:** High-speed refrigerated performance in a space-efficient footprint.

## TECHNICAL SPECIFICATIONS

| Specification               | IG-241R                                                                         |
|-----------------------------|---------------------------------------------------------------------------------|
| Maximum Speed               | 16,000 rpm                                                                      |
| Maximum RCF                 | 19,040 ×g                                                                       |
| Maximum Capacity            | 6 × 50 mL                                                                       |
| Temperature Range           | -20°C to +40°C                                                                  |
| Temperature Accuracy        | ±1°C                                                                            |
| Speed Accuracy              | ±20 rpm                                                                         |
| Timer                       | 1–99 min 59 sec                                                                 |
| RPM / RCF Conversion        | Yes                                                                             |
| Acceleration / Deceleration | 10 kinds                                                                        |
| Noise Level                 | ≤60 dB                                                                          |
| Motor Type                  | Brushless frequency motor                                                       |
| Control System              | Microprocessor controlled                                                       |
| Display                     | Digital / LCD                                                                   |
| Programs                    | 99 programs; 4 direct program buttons                                           |
| Safety Features             | Automatic electric lid lock, overspeed, over-temperature & imbalance protection |
| Pre-Cooling Function        | Yes                                                                             |
| Pulse / Short Spin Function | Yes                                                                             |
| Body Construction           | High-quality steel                                                              |
| Chamber                     | Stainless steel                                                                 |
| Power Supply                | AC 220 V, 50 Hz                                                                 |
| Dimensions (L × W × H)      | 610 × 340 × 265 mm                                                              |
| Net Weight                  | 70 kg                                                                           |
| Certificates                | CE, ISO & Calibration Report available                                          |

## AVAILABLE ROTORS

| Rotor No. | Maximum Speed | Maximum Volume / Capacity | Maximum RCF |
|-----------|---------------|---------------------------|-------------|
| 5184      | 16,000 rpm    | 40 × 0.2 mL               | 19,040 ×g   |
| 5185      | 16,000 rpm    | 24 × 0.5 mL               | 18,480 ×g   |
| 5106      | 13,000 rpm    | 40 × 0.5 mL               | 17,210 ×g   |
| 5186      | 16,000 rpm    | 12 × 1.5/2 mL             | 17,940 ×g   |
| 5188      | 15,000 rpm    | 24 × 1.5/2 mL             | 20,600 ×g   |
| 5191      | 16,000 rpm    | 10 × 5 mL                 | 17,880 ×g   |
| 5133      | 14,000 rpm    | 4 × 8 PCR                 | 12,070 ×g   |
| 5192      | 13,000 rpm    | 6 × 10 mL                 | 14,190 ×g   |
| 5143      | 6,000 rpm     | 6 × 50 mL                 | 4,110 ×g    |



## CONNECT WITH US

### ADDRESS

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