



FIDELS SCIENCE

A UNIT OF FIDELS EYE N SCIENCE PVT. LTD.

About the Company

With a vast experience of 10 Years, Fidels Science is a leading laboratory equipment manufacturer and supplier dedicated to providing high-quality and innovative solutions for scientific research and analysis. With a commitment to excellence, we aim to empower laboratories worldwide by delivering state-of-the-art equipment and unmatched customer support.

Refrigerated Centrifuge

Model: FIDELS/C-10



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General Construction & Design

The centrifuge is a compact, floor-mounted refrigerated system engineered for routine as well as advanced laboratory applications. Its robust cabinet construction and optimized internal layout are designed to support continuous operation.

- Exterior Dimension will be **W325 × D470 × H800mm**.
- Mounted on sturdy castor wheels with caster holders for smooth mobility and secure positioning.
- Low-vibration structural design to ensure stable performance during high-speed centrifugation.
- Optimized internal layout to support quiet operation and enhanced user comfort.

Performance & Speed Range

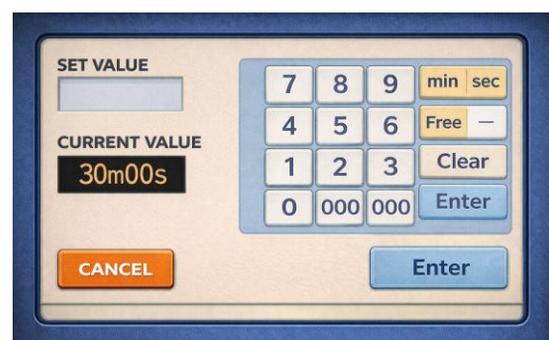
The system delivers a wide operating speed range with reliable refrigeration performance, making it suitable for temperature-sensitive and high-speed centrifugation workflows. Consistent speed and temperature control are maintained even during extended runs and under maximum load conditions.

- Operational speed range from 300 to 16,000 RPM with centrifugal force up to 24,880 × g (RCF).
- High efficient CFC-free refrigeration system for temperature-sensitive applications.
- Operating temperature range from $-5\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.
- The system is equipped with a flexible time pre-selection feature, allowing short-run operation, continuous mode, and programmable run times up to 99 minutes, ensuring precise control for a wide range of centrifugation protocols.
- A high-efficiency induction motor ensures smooth, low-vibration performance and long service life during continuous laboratory use.

Control System & User Interface

The centrifuge is operated through an intelligent microprocessor-driven control platform designed to streamline routine laboratory workflows. The system allows users to easily configure and regulate operating parameters through a clear and responsive interface, while continuously processing input commands and real-time feedback to maintain stable performance throughout the run cycle. This control architecture ensures precise execution of programmed settings, reduces operator intervention, and supports consistent, repeatable results during everyday laboratory operations.

- Microprocessor-based control system with an alphanumeric LCD display for clear and reliable parameter visualization.
- Display enables real-time monitoring of critical operating parameters including speed (RPM), RCF, temperature, and run time.
- Visual color-change indication during operation for quick monitoring.
- User-friendly interface designed to reduce operator training time.
- User can set, adjust, and recall operating parameters directly through the control interface.
- Integrated control allows precise regulation of centrifugation speed and temperature throughout the run cycle.
- Time programming functionality supports short spin, timed runs, and continuous operation modes.
- Visual indicators on the display assist in easy status recognition during operation, reducing the need for constant supervision.
- Built-in ECO mode selection through the controller to optimize power consumption during routine use.
- Intuitive menu navigation designed to minimize operator errors and training requirement.



Rotor & Sample Capacity

Designed for flexibility, the centrifuge supports a variety of rotor configurations to accommodate different sample types and laboratory workflows, ensuring efficient handling of routine and molecular biology applications.

- Capacity to hold up to 72 microcentrifuge tubes (1.5 ml / 2 ml) simultaneously.
- Compatible with 96-well PCR plates for molecular biology applications.

FIDELS/R-12 (Rotor)

- Stackable rotor system.
- Up to 3 racks can be stacked simultaneously.
- Designed for efficient sample organization.
- Robust construction for stable high-speed operation.
- Easy loading and unloading of racks.

Safety & Protection Features

The centrifuge operates with an integrated intelligent safety architecture that continuously monitors operating conditions during the entire run cycle. The system actively supervises lid status, rotor behavior, speed, and load balance before and during operation, allowing the instrument to function only when all safety parameters are within permissible limits. Any abnormal condition such as improper lid closure, imbalance, or excessive speed is automatically detected and corrected or the operation is safely interrupted, ensuring user protection and sample integrity. Controlled braking and motor protection logic further ensure smooth deceleration, reduced mechanical stress, and long-term reliability of the centrifuge during routine as well as high-speed applications.

- Lid interlock system with lid open/close detection.
- Automatic overspeed protection, rotor identification, and imbalance detection.
- Protection against overcurrent, overheating, and overcooling.
- Soft-brake function and FLASH (short spin) mode for rapid sample handling.
- operation is supported through an intuitive control mechanism such as a jog dial enter key with touchscreen numerical input.
- Integrated annual inspection and dusting indicators for preventive maintenance.
- Overcurrent circuit breaker, motor overheating and overcooling protection, and soft brake function enhance operational safety and equipment longevity.
- ECO Power-Saving Mode to reduce energy consumption during operation.

Electrical & Installation Requirements

The centrifuge is designed for easy installation and reliable operation in standard laboratory environments, with electrical specifications aligned to common laboratory infrastructure.

- Operates on single-phase 220V power supply.
- Designed to comply with applicable laboratory electrical and safety standards.
- Installation-friendly design enables quick setup and commissioning.

Options

- The centrifuge is compatible with a wide range of optional high-performance rotors to support different tube sizes and plate formats, providing flexibility to meet diverse laboratory application requirements.
- Most commonly used rotor with typical laboratory applications are mention here-

FIDELS/R-21

- Capacity: 2 ml × 24 tubes.
- Maximum speed: 15,000 rpm.
- Maximum RCF: 20,380 G.
- Fixed-angle rotor design for efficient separation.
- Suitable for microcentrifuge tube applications.

FIDELS/P-40 (with Adapter FIDELS/A-16)

- Capacity: 96-well PCR plate × 2.
- Maximum speed: 14,000 rpm.
- RCF: 10,740 G to approx. 15,340 G.
- Includes adapter: FIDELS/A-16
- Ideal for PCR plate centrifugation.
- and quick spin-down.

FIDELS/R-20

- Capacity: 50 ml or 15 ml × 4 tubes.
- Tube type: Conical tubes.
- Maximum speed: 15,000 rpm.
- Maximum RCF: 20,380 G.
- Heavy-duty rotor designed for larger volume samples.

FIDELS/R-09

- Capacity: Supports 14 ml tubes × 8 positions.
- Maximum Speed: 15,000 rpm.
- Maximum RCF: 20,380 × g.
- Design: Precision-engineered rotor ensuring secure tube holding and stable high-speed operation.
- Application: Suitable for routine laboratory centrifugation requiring medium-volume sample processing.

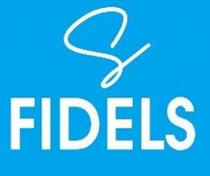
FIDELS/R-15

- Capacity: Accommodates 30 ml tubes × 6 positions.
- Maximum Speed: 15,000 rpm.
- Maximum RCF: 20,380 × g.
- Design: Robust rotor construction for reliable performance at high centrifugal forces.
- Application: Ideal for laboratories handling larger sample volumes with consistent separation efficiency.



Model: FIDELS/C-10

Speed Control System	Microprocessor-based system for precise and stable speed regulation.
Controller Interface	jog dial enter key with touchscreen numerical input.
Temperature Range	-5 °C to +40 °C, ±1 °C Digital temperature setting and control through the controller.
Speed Range	300 to 16,000rpm ±50rpm increments Direct speed setting with smooth acceleration and regulation.
Motor	Induction Motor.
RCF Range	Maximum RCF 24,880G, (Less than 300G : 10G increments, Over 300G : 100G increments).
Safety Devices	<ul style="list-style-type: none">• Lid open/close detector.• Rotor identification system.• Over-speed detector.• Imbalance detector.• Motor over-current detector.• Overheat / overcool detector.• Lid interlock system.
Time Range	0 ~ 99min ±10sec, continuous run.
User-Friendly Functions	Date & time display, six-program memory, PRE-TEMP and FLASH (short spin) functions, soft brake operation, ECO power-saving mode, last run memory, heat exchanger overheat protection, and annual inspection indicator.
Power Requirements	Single-phase 220 V power, 50Hz.



Why Choose Us

FIDELS Science has earned the trust of customers across the country through a strong commitment to quality, consistency, and customer satisfaction. Our laboratory instruments are manufactured using premium-quality materials and the latest technologies, ensuring compliance with the highest industry standards. We strictly follow delivery timelines and believe in building long-term partnerships by actively welcoming customer feedback and suggestions. The proven performance, durability, and reliability of our products speak for their quality and have helped us serve several prestigious clients nationwide, supported by dependable after-sales service.



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