



Centrisart® D-16C

Refrigerated All Purpose Benchtop Centrifuge

Advantages

- Versatile with a flexible range of applications
- Medium-sized capacity
- High cooling efficiency
- Gentle separation of sensitive materials
- Volume | capacity: 4 × 100 ml | 400 ml



Product Description

The Centrisart® D-16C is a universal benchtop centrifuge with a medium-sized capacity of 400 ml. This compact refrigerated centrifuge has a small footprint and features with a versatile range of applications in the lab. The option of a high speed of 15,300 rpm also allows for use in molecular biology applications. It's ergonomic design, easy to read display and quite noise level simplifies sample loading and unloading, convenient operation and allows an extremely quite noise level.

The centrifuge is also optimally suited for low-speed applications and those requiring gentle handling of cells or sensitive samples. When working with samples that can not be churned up, a gradual deceleration curve ensures gentle declaration and prevents sample from mixing. This function is also beneficial when working with microtiter plates.

With the use of adapters, the Centrisart® D-16C is also perfectly suited for high-throughput applications with spin kits utilizing 1.5 ml | 2 ml vessels.

Applications for concentrating samples via ultrafiltration (spin kits), e.g., antibody solutions, sample deionization or buffer adjustment, as well as the removal of contaminants with small or very large molecular weights.

To ensure this centrifuge is suitable for versatile range of application there is a strong compressor which supplies fast cooling of samples and protects them from heat and churning up; as well as aluminum rotor which promote optimal cooling.

The Centrisart® D-16C is an extremely high quality product and meets the highest safety standards. It comes with a secure lid that electronically locks and rotor cover caps that protect against aerosol emissions.

Technical Specifications

| | |
|----------------------------|---|
| Max. speed rpm | 15,300 |
| Max. capacity | 4 × 100 ml |
| Max. gravitational field | 21,913 g |
| Min. speed rpm | 100, low speeds also possible |
| Temperature range | - 10°C to + 40°C |
| Temperature increments | Adjustable in increments of 1°C |
| Quick cooling | Quick cool program, guaranteed 4°C at max. speed; rotor cooling even possible during downtimes |
| Coolant | CFC-free (R134a) |
| Display | Concise display, backlit keys |
| Control panel | Easy, 1-button intuitive operation |
| Motor | Maintenance-free, brushless drive motor |
| Lid-lock release | Motorized locked lid, automatic lid-lock release |
| Lid | Inspection window for independent speed measurement, easy-to-open lid port |
| Rotor | Rotor detection for fixed angle rotors, swinging rotors |
| Rotor chamber | Stainless-steel |
| Imbalance safety mechanism | Automated imbalance control |
| Timer | 10 sec. – 99 min., short run continuous run |
| Programs | 50 |
| Acceleration curves | 10 |
| Deceleration curves | 10 |
| Rotor safety | Automatic detection, cycle counting of the rotors |
| Dimensions (W × D × H) | 550 × 570 × 310 mm |
| Height with open lid | 705 mm |
| Weight of Rotor | 60 kg |
| Noise level at max. speed | <65 dB |

Electrical connection data

| | |
|-------------------|-------------------------|
| Power consumption | 720 W |
| D16C-1EU | 220 – 240 V; 50 60 Hz |
| D16C-1US | 100 – 120 V; 50 60 Hz |
| D16C-1JP | 100 – 120 V; 50 60 Hz |

Accessories

| Order number | Description |
|--------------|--|
| YCSA-A4B | Fixed angle rotor 24 × 1.5-2 ml reaction vials, include hermetic aluminum lid |
| YCSA-A9B | Fixed angle rotor for 6 × 50 ml culture tubes include hermetic aluminum lid |
| YCSA-S5B | Complete set – Swing-out rotor for microtiter plates, including carriers for microtiter plates. Max. height 56 mm; max. load per carrier 335 g |
| YCSA-S1B | Swinging rotor, 4 inserts, for buckets B9Bdia45mmS3B |
| YCSB-B9B | Round bucket for rotor S1B-D16, sealable with cap, for adapter AxxxxxB9B, 1 set = 2 pcs. |
| YCSA-A9B | Round carrier for one 50-ml culture vessel, 1 set = 2 pcs. |
| YCSA-A0B | Round carrier for two 15-ml culture vessels, without cap only, 1 set = 2 pcs. |
| YCSA-AAB | Round carrier for four 1.5 2.0 ml reaction vials, max. Ø 11 mm, 1 set = 2 pcs. |
| YCSA-ABB | Round carrier for 30-ml vessels with stand-up edges or a flat bottom, max. Ø 25 31 × 65 – 95 mm, 1 set = 2 pcs. |
| YCST-D16C | Centrifuge table made of painted steel housing with 2 doors and room for accessories, moveable, with locking castors, dimensions: W 550, D 600, H 497 mm |

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