



Centrisart® A-14C

Micro-Centrifuge

Advantages

- Optimum combination – Rotors for Sartorius VivaSpin® filtration units
- Sample protection – Reliable sample cooling to 4 °C at max. speed
- Compact – Very small footprint (27 × 24 cm)
- Volume | Capacity: 24 × 2 ml | 48 ml



Product Description

The microcentrifuge Centrisart® A-14C is extremely compact, space-saving. The powerful centrifuge provides a maximum speed of 15,000 rpm and a capacity of 24 × 2 ml. Microcentrifuge A-14C is ideal suited for nucleic acid isolation and purification using spin-columns and concentrating biological samples using Sartorius Vivaspin® 500 units.

Processes like sample concentration of e.g. antibody solutions by ultrafiltration, desalting or buffer exchange, as well as removal of contaminations with small or very large molecular weights, are particularly supported through the special Vivaspin® 500 ultrafiltration unit-tailored rotor YCSR-A1C. In addition, the microcentrifuge is well-suited to sediment cells or particles in small volumes. The device provides large control buttons and easy-to-read displays to facilitate quick and easy input or selection of centrifugation parameters and convenient operation.

Thanks to its small size the microcentrifuge Centrisart® A-14C fits on any laboratory bench. The low height and the motorized lid lock ensure convenient sample loading and removal. Upon a gentle push the lid closes automatically. On completion the lid can be unlocked by a single key stroke and lifts autonomously. With just one finger the lid can then be opened completely and is securely kept open by a spring mechanism. During centrifugation runs the electronic lid lock prevents accidental opening of the lid to provide extensive user protection.

Microcentrifuge Centrisart® A-14C represents exceptional product quality and meets the highest safety requirements. Amongst others, the high quality is reflected by the low-level noise of max. 53 dB and the chemical resistance of the materials processed. Spreading of aerosols is safely prevented by a rotor cover with quick-locking function and both, the rotor chamber and the rotors can easily be cleaned. For temperature-sensitive samples, the active cooling option of the microcentrifuge Centrisart® A-14C can be used. The pre-cool function aid the rapid cool down to the set target temperature and even at maximum speed the model A-14C ensures reliable sample cooling to 4°C.

Special Features

- Splash-proof keypad with clear display
- Keys with tactile feedback
- Operation with gloves possible
- Automatic conversion of speed and RCF
- Speed 200 – 15,000 rpm, adjustable in steps of 100 rpm
- Max. gravitational field (RCF) 16,602 g, adjustable in increments of 10 × g
- Timer 10 sec. – 99 min., adjustable in steps of 1 sec., short run, continuous run
- Optional soft start or soft stop
- Memory of the last setting
- Maintenance-free motor
- Motorized lid lock, automatic lid release
- Emergency lid lock release
- Ergonomic operation of the lid with one finger
- High chemical resistance
- Pleasantly quiet operation
- Memory for 10 programs
- Temperature range -10 – + 40°C, adjustable in steps of 1°C
- Reliable sample cooling to 4°C even at max. rpm
- Rapid pre-cooling mode

Technical Specifications

Max. speed rpm	15,000
Max. capacity	24 × 2 ml
Max. gravitational field	16,602 g
Min. speed rpm	200
Display	LCD, 65 × 47 mm
Temperature range	-10 to +40 °C
Temperature increment	Adjustable in steps of 1 °C
Coolant	R134A (CFC-free)
Filling amount	105 g
Pressure	23 bar
CO ₂ -equivalent	0.150 t
Motor	Maintenance-free, brushless drive motor
Timer	10 sec. – 99 min. 59 sec., short run continuous run
Lid-lock release	Motorized locked lid, automatic lid-lock release
Lid	Inspection window for independent speed measurement
Rotor	Fixed angle rotor
Programs	10
Acceleration curves	2
Deceleration curves	2
Dimensions (W × D × H)	273 × 515 × 236 mm
Height with open lid	404 mm
Weight	19 kg
Noise level at max. speed	53 dB
Power consumption	230 W

Order Information

Order Number	Description
A-14C-1EU	Centrisart® A-14C centrifuge 220 – 240 V; 50 60 Hz
A-14C-1US	Centrisart® A-14C centrifuge 110 – 120 V; 50 60 Hz
A-14C-1EU-SET	Set Centrisart® A-14C centrifuge, 220 – 240 V, 50 60 Hz, incl. rotor YCSR-A1C
A-14C-1US-SET	Set Centrisart® A-14C centrifuge, 100 – 120 V, 50 60 Hz, incl. rotor YCSR-A1C

Accessories

Order Number	Description
YCSR-A2B	Fixed angle rotor for 24 × 1.5 2.0 ml conical reaction tubes, incl. polysulfone lid YCSM-A1B (not available for A-14-1US)
YCSR-A1C	Fixed angle rotor made of polypropylene for 12 × 1.5 2.0 ml conical reaction tubes or 12 × Vivaspin® 500, incl. polysulfone lid YCSR-A1C
YCSA-1	Adapter for 0.25 0.4 ml reaction tubes for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs.
YCSA-2	Adapter for 0.5 0.75 ml reaction tubes Ø 7.9/10 × 28/31 mm for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs.
YSCA-4	Adapter for 0.2 ml PCR reaction tubes for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs.

Technical Data Rotors

Order Number	Rmax [mm]	Rmin [mm]	rpm	RCF
YCSR-A2B	66	30	15,000	16,602
YCSR-A1C	62	29	14,800	15,596

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