



Thermo Scientific Sorvall® RC12BP™ Low-Speed Centrifuge

**Reliable and consistent
performance for blood
banking and bio-processing**



Thermo Scientific RC12BP Low-Speed Centrifuge

Superior separations and increased productivity

Our Thermo Scientific RC12BP offers best in class reliability and safety for use in your lab and clean room environments. With the ability to run up to 12 blood bags or 12 L of sample in a single run, our Sorvall RC12BP offers high-throughput to meet the most demanding lab requirements.

Quality separations

The Sorvall RC12BP low-speed centrifuge helps ensure high-quality separations through a variety of features, including the MSR™ System for minimum sample disturbance; a unique, brushless, Gyro-action direct-drive motor that provides smooth operation – even in the presence of a slight imbalance; and our Accumulated Centrifugal Effect™ (ACE) function which compensates between full and partial rotor loads for maximum reproducibility.

Automatic reproducibility

To ensure reproducible separations from run-to-run and instrument-to-instrument, simply choose the ACE button, enter the total Accumulated Centrifugal Effect for your protocol, and the centrifuge will automatically compensate for variations in acceleration times due to differences in a full or partial rotor load by adjusting the run time. This ensures reproducible separations by applying the same total centrifugal effect to all related runs.

Customize runs for maximum yields

The RC12BP centrifuge lets you control the rates of acceleration and deceleration with the MSR™ (Minimal Sample Resuspension)

System. Using the Slow Start/Slow Stop features, you can choose from ten acceleration and deceleration profiles, allowing you to customize runs for minimal sample resuspension, cleaner interfaces and maximized product yields.

Easy to use

Set and actual displays allow the user to verify that the correct protocol is performed. You can quickly recall up to 15 preprogrammed runs, or press the Menu key to access advanced features such as QC runs, programming options, step runs, slow-start and slow-stop profiles or brake-off deceleration. Instrument controls are of a soft-touch design, making clean-up safe and easy.



With the H-12000 rotor, you can process up to 12 blood bags with 550mL collection volume each. The high-capacity H-12000 rotor features a corrosion resistant stainless steel body that separates from an aluminum windshield for safe handling and easy cleaning.



Enhanced features of the Sorvall RC12BP

New, ergonomic instrument design with a lower deck height, providing easy access to the rotor keypad.

Set display Displays currently selected run parameters in the HOME screen, advanced feature screens (for selection of options or programming), and user advisory messages.

Easy-to-use Operator Interface includes brightly lit displays with an end-of-run indicator which can be viewed from across the room.

Unsurpassed temperature control during and after centrifugation, keeping the bucket temperatures to within 2°C. And because this all but eliminates moisture build-up in the rotor chamber, there is less rotor chamber maintenance and cleaning.

A three position keypad lock provides varying levels of access for the user.

Overtemp/undertemp Set the max./min. allowable sample temperature for runs. Should the sample temperature fall outside the range, the user will be alerted.

Clean-room compatible, brushless motor and cleanable surfaces for operation with minimal particle generation.



SPECIFICATIONS AND ORDERING INFORMATION



Thermo Scientific Sorvall RC12BP Low-Speed Centrifuge

Technical Specifications

Maximum rotor capacity	6 x 2400mL
Motor system	Brushless high-torque, Gyro-Action direct-drive 3.6 HP
Maximum speed	4,700 rpm
Maximum force	7,333 x g
Speed settable	10 rpm increments
Speed control range	150 rpm to 4,700 rpm
Speed control accuracy	±20 rpm or 1%
Slow start	10 graduated profiles
Slow stop	10 graduated profiles
Braking system	Electronic regenerative
Imbalance detector	50 gram tolerance
Temperature settable	1°C increments
Temperature set range	-10° to +40°C
Temp. control accuracy	±2°C of set temperature

Temperature readout	-20° to +45°C
Overtemp/Undertemp protection	6°C above set or user settable time: 99 minutes, 59 seconds (or HOLD for indefinite length of time)
Programs	Up to 15 stored in memory

Dimensions

Height Top of door	89 cm (35 in.)
Top of panel	104 cm (41 in.)
Width	84 cm (33 in.)
Depth	107 cm (42 in.)
Rotor chamber diameter	68.5 cm (27 in.)

Weight

Uncrated, approx.	497 kg (1,093 lbs.)
Crated, approx.	551 kg (1,213 lbs.)

Ordering Information

Model	Description	Cat. No
RC12BP instrument	240v, 60 Hz, 50 A	77009
RC12BP instrument	230v, 60 Hz, 50 A	77000
RC12BP instrument	208v, 60 Hz, 50 A	77001
RC12BP instrument	220v, 60 Hz, 50 A	77002
RC12BP instrument	200v, 60 Hz, 50 A	77004
RC12BP instrument	220v, 50 Hz, 50 A	77005
RC12BP instrument	240v, 50 Hz, 50 A	77003
RC12BP instrument	200v, 50 Hz, 50 A	77008
RC12BP instrument	230v, 50 Hz, 63 A, CE mark (1)	77006
RC12BP instrument	230v, 50 Hz, 32 A, polyphase, CE mark (2)	77007

(1) Equipped with Harmonized line cord and connector, 2-pole and ground.

(2) Equipped with Harmonized line cord and connector, 3-pole neutral and ground.

Rotors, Adaptors and Accessories

Rotor Specifications	Capacity	Speed (RPM)	RCF	Cat Number
H-12000 Blood Processing Rotor	12x550ml	5,000	7,333	77050
Cover for adapters				77033
Adapter rack (single)				77064
Adapter rack (6 place)				77065
Adapters for H-12000 Blood Processing Rotor				
450-550ml triple or quad blood bag w/additive	12x550			77030
450-550ml triple or quad blood bag w/o additive	12x550			77032
400-450ml double or triple w/additive	12x450			77032
250-300ml platelet rich plasma or buffy coat	12x300			77031
H-12000 Bio-Processing Rotor	6x2400ml	5,000	7,333	77080
Bottles for Bio-Processing Rotor				
2L Bio-Bottle	6x2400	4,700	7,333	3120-2002
Polypropylene 1L low-speed bottle	6x1000	4,700	7,333	3120-1000
Polycarbonate 1L low-speed bottle	6x1000	4,700	7,333	3122-1000
Adaptor for 1L Bottle				77074

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www.thermo.com/centrifuge

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