

**Large Capacity Refrigerated Centrifuge
for blood bags**

9942



**Large Capacity Refrigerated Centrifuge
for blood bags**

9920



Large Capacity Refrigerated Centrifuge for blood bags 9942 / 9920

Counterbalanced lid opens and closes easily, with safety provided by the electrical interlock system.
A single Model 9942 unit can centrifuge 12 blood bags at once.



LCD display

Operating status lamp



- **An electrical interlock system is employed.**
The chamber lid locks automatically and can be closed with a gentle push.
- **Operating status lamp and buzzer indications let you know what the centrifuge is doing at a distance.**
 - Seven different lamp colors can be selected as desired for each program number, to indicate when the centrifuge is running or stopped.
 - Five unique buzzer melodies, beeping, or silent mode can be selected.
- **The inner cup for blood bags is designed for ease of use.**
Special bottom surface design facilitates removing blood bags with minimal tilting of the inner cup, to preserve centrifuged layering.
- **Acceptable imbalance up to 50 grams.**
Measured and collected blood bags can be centrifuged directly. If imbalance is excessive, an imbalance sensor automatically stops the centrifuge.
- **Maximal reproducibility of separation states.**
Integrator g sec values (integrated centrifugal values) can be measured and set.
- **Step centrifugal function is available.**
This centrifuge is compatible with automatic umbilical cord blood isolation unit.
- **Complies with GMP requirements.**
 - Easy to check actual rotor speed with the tachometer port.
 - LOG system and bar-code reader are available (optional).

LCD display functions:

- Setting operation parameters.
Number of cycles of use/Time of use/Error history.
Lamp color indicating stopped rotor.
Clock function (for LOG printer)
- Rotor parameter settings.
Max speed/RCF indications and changing of rotor radius.
Number of cycles of rotor use and rotor use time indications.

Easily viewable LED display and LCD display for setting/error indication.
6 x 1L large volume high-speed angled rotor.



- **An electrical interlock system is employed, to ensure the lid is safely closed before operation.**
chamber lid can be closed with a gentle push.
- **Acceptable imbalance up to 50 grams.**
If imbalance is excessive, an imbalance sensor automatically stops the centrifuge.
- **High reproducibility of separated states.**
Acceleration and deceleration curves can be set in 10 stages as required for different samples.
- **Tachometer port for GMP requirements is available.**
The actual rotor speed can be easily checked.
- **LOG system and bar-code reader (which can be used for GMP requirements) is available** (optional).



Foot switch is available for hands-free lid opening (optional).

Centrifuge/Rotor Matching Guide

	Blood bags / Large Volume swinging bucket rotor			
Rotor	RS-8120	RS-6602	RS-7002	RS-8080
				
Maximum Speed (rpm)	4,000	4,200	4,200	4,200
Maximum RCF (xg)	5,240	5,010	5,270	5,250
Maximum Capacity	12 x Blood bags 12,000mL	6 x Blood bags 6,000mL	6 x Blood bags 6,000mL	8 x Blood bags 8,000mL
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9920	—	○	○	○

RS-8120 rotor for model 9942



Maximum Speed	4,000rpm
Maximum RCF	5,240xg
Maximum Capacity	12 x Blood bags
Inner Cup Code	055-6226

RS-6602 rotor for model 9920



Maximum Speed	4,000rpm
Maximum RCF	5,240xg
Maximum Capacity	6 x Blood bags
Bucket Code	053-5970
Inner Cup Code	055-6170S

RS-7002 rotor for model 9920



Maximum Speed	4,200rpm
Maximum RCF	5,270xg
Maximum Capacity	6 x Blood bags
Inner Cup Code	055-6176L

RS-8080 rotor for model 9920



Maximum Speed	4,200rpm
Maximum RCF	5,250xg
Maximum Capacity	8 x Blood bags
Inner Cup Code	055-6220

SPECIFICATION

	Model 9942	Model 9920
Maximum speed	4,000rpm	4,200rpm
Maximum RCF	5,240xg	5,270xg
Maximum capacity	12 x Blood bags (12.000mL)	8 x Blood bags (8.000mL)
Control system	inverter Microprocessor control, Speed, Centrifugal force, time, temperature, g•sec, acceleration/deceleration, 50 memory banks	
Alarm display	Lid open, Imbalance, over speed, abnormal temperature, Function for detecting an occurrence of electrical abnormality in motor, inverter, doorlock and speed sensor.	
Acceleration/Deceleration	10-level selectors	
Speed setting	100~4,000rpm, 10rpm steps	100~7,000rpm, 10rpm steps
Speed indication	0~4,300rpm, 10rpm steps	0~7,300rpm, 10rpm steps
RCF setting	10~5,240xg, 10xg steps	10~11,290xg, 10xg steps
RCF indication	0~6,000xg, 10xg steps	0~12,270xg, 10xg steps
Integrator setting and indication	$1.000 \times 10^1 \sim 9.999 \times 10^9 \text{ g} \cdot \text{sec}$, $1.000 \times 10^1 \sim 9.999 \times 10^9 \text{ rad}^2/\text{sec} \left(\int \omega^2 t dt \right)$	
Timer setting and indication	1 sec~99 hour 59 min 59sec, 1sec steps • 0 sec~99 hour 59 min 59 sec, 1 sec steps	
Temperature setting and indication	-9~+40°C, 0.1°C steps • -9~+43°C, 0.1°C steps	
Refrigerant	R404A	
Rated voltage and rated current	200V • 24A 220V • 18A / 230V • 17A	200V • 21A 220V • 15A / 230V • 14A
Power consumption and heat output	3.7kW • 13MJ/hour	2.6kW • 9.4MJ/hour
Power requirements (220, 230V)	Single phase 50/60Hz 220V $\pm 10\%$, 230V $\pm 10\%$, 40A	Single phase 50/60Hz 220V $\pm 10\%$, 230V $\pm 10\%$, 30A
Dimensions, weight	81(W) x 91(D) x 108(H)cm ^(*) • 450kg	73(W) x 83(D) x 108(H)cm ^(*) • 370kg
Certificates of conformity (220, 230V)	IEC61010-2-020, CE Marking	IEC61010-2-020, CE Marking (except when K12510 rotor is used)
Operating environment	Temperature 10°C to 40°C, atmospheric pressure 70 to 106kpa, humidity 30 to 85%	

(*) 1) Not including projections.

★ Use only rotors, adaptors and tube racks made by KUBOTA. Do not attempt to use rotors, adaptors or tube racks made by other manufacturers.

★ Follow all instructions in the relevant Instruction & Service Manual when operating centrifuges.

Kubota has acquired ISO 9001 and ISO 13485 certification.

	Safety Precautions	For your safe use of the equipments, be sure to read the instruction manual carefully before you start its operation.	Parts may be adversely affected by heat, humidity and specimens or deteriorated by aging resulting in functional failures or may even lose their safety characteristic to cause accidents.
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	DISCONTINUE USE	Always discontinue use when phenomena listed at right appear.	The rotor or bucket has been found to be damaged or corroded. A burnt smell comes out of the equipment. You receive a minor electrification when you touch the equipment body by a naked hand. Some other abnormality or failure has been found occurring.	IMPORTANT	To prevent occurrences of functional failures or accidents, turn off the power switch, pull out the power cable plug from the plug socket and be sure to contact your nearest Kubota Dealer, or an office of Kubota Corporation when there is no Kubota Dealer in your neighbourhood.
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KUBOTA CORPORATION

<http://www.centrifuge.jp>

29-9 Hongo 3-chome, Bunkyo-ku, Tokyo 113-0033, Japan

Tel +81 3 3815 1331 Fax +81 3 3814 2574

E-mail: ftrade@kubotacorp.co.jp

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