

Large Capacity Refrigerated Centrifuge

Model **9900**

Model **9910**

Inverter Microprocessor-controlled



KUBOTA

ISO
9001
CERTIFIED
KUBOTA MFG. CORP.

Model 9900/9910 can mount a logging system for GMP. An LCD (liquid crystal display) is adopted as a display device. Speed of rotation, time, temperature, acceleration or deceleration, and errors become easy to see because they are displayed on a single LCD. Two types of high-speed and large-capacity angle rotors of six liters (2) and six bottles x 1 liter are available.

- A logging system for GMP and a barcode reader can be mounted.
- By connecting a personal computer, operation results and operating conditions of multiple centrifuges are transferred to the personal computer as data and the data can be managed in a batch. (Option)
- By adding a printer to the main unit, operation results and operating conditions for each centrifuge can be printed out. (Option)
- A barcode reader that reads barcodes attached to a blood bag can be mounted. (Option)
- Operating function in the centrifugal force (xg) setting and display.
Measurement of integrator function g. sec values (integrated values of centrifugal force) and operation by setting are enabled. A good separate state of a sample can be reproduced.
- Memory function (99 channels) in operation mode.
Acceleration and deceleration curves can be set in ten stages depending on samples.
- The allowable imbalance is 60 grams.
A bag for weighed and collected blood can be centrifuged as is. If there is a great weight difference, [Imbalance Detection] works and the blood bag stops automatically.
- A special suspension mechanism that can operate in low vibration at low-speed and high-speed operation is adopted newly. Stable centrifugation with small disturbance is enabled and this mechanism is suitable to the weak centrifugation of the blood bag.
- A chamber lid with an interlock is made of steel and uses a twin lock system at the front and rear two places. It is firmly locked (sealed) by a one-side lock system.
- Six types of alarm displays, such as "OPEN", "IMBAL", "SPEED", and "TEMP", and the automatic stop function are provided.
- Patlight that can immediately identify centrifugal termination even at a separate place and an electronic buzzer are attached.

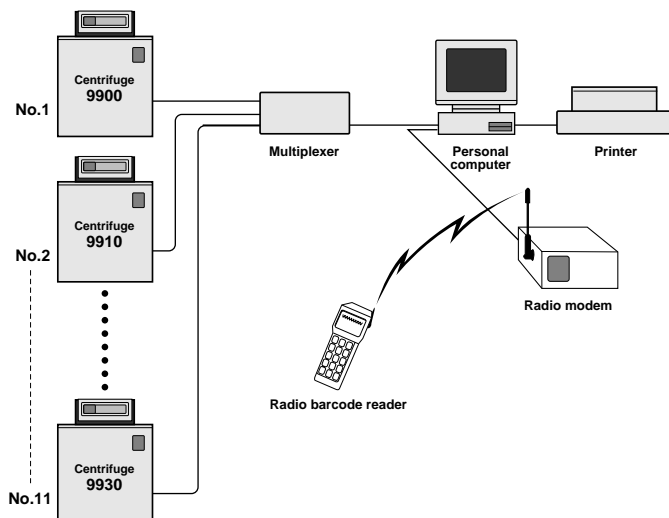


Models 9910 and 9900 have almost the same outward appearance.



The log printer is an option.

Model 9900/9910 Logging System/Barcode System



- A barcode reader can be mounted as a system. Contact us.
- This logging system automatically records various conditions to use and manage GMP and the main unit rotor. For more information, contact us.
- The contents to be logged are as follows:
 - (1) Date and time when this logging system operated
 - (2) Centrifugal condition data
 - ① Speed of rotation (rpm)
 - ② Centrifugal force (xg)
 - ③ Time (min, sec)
 - ④ g.sec
 - ⑤ Temperature (°C)
 - ⑥ Acceleration curve
 - ⑦ Deceleration curve
 - (3) Barcode reader data
 - ① Blood bag barcode
 - ② Centrifuge No.
 - ③ Name of a user
- A log printer is used to log each data.
The log printer cannot output barcode reader data.
- For more than one to 11 logging systems, the data is logged as shown in the drawing on the left using a personal computer and a printer. Prepare the personal computer and the printer. A personal computer on which Windows 98/95 operates is necessary.

Note: Order the personal computer and the printer after specifying a model used when you placing an order.

Two Types of Six Liters (ℓ) Large-Capacity Angle Rotors

- Six bottles x one liter (ℓ) can be processed centrifugally for 11,394 Xg.
- The S12510 Aluminum Angle Rotor is reasonable in price and enables mass processing.
- The acceleration and deceleration times are shown below.

	S12510
Model 9900	About 3 minutes (6,000 rpm)
Model 9910	About 4.5 minutes (7,000 rpm)



S12510
Aluminum Angle Rotor

Rotor, Bucket, Tube Rack Table for model 9900 and 9910

Rotor Name	Nominal Capacity	Tube sizes (mm) diam. x length	9900		9910		Bucket Code No.	Tube Rack Adaptor Code No.
			Maximum Speed rpm	Maximum RCF x g	Maximum Speed rpm	Maximum RCF x g		

High Capacity Angle Rotors

S12510 *1	6 x 1,000ml Stainless tube	100 x 172	6,000	8,291	7,000	11,285		
	6 x 1,000ml Plastics bottle *2	98 x 175	6,000	8,291	7,000	11,285		S13511

High Capacity Swinging Bucket Rotors

RS-7100	4 x 800ml Blood Bags				4,200	5,088		
RS-7002	6 x 1,000ml Plastics bottle	98 x 164	3,900	4,540	3,900	4,540		
	6 x 400ml MAP Blood Bags		4,200	5,265	4,200	5,265		
	12 x 200ml Triple Blood Bags		4,200	5,265	4,200	5,265		
RS-6602 *3	6 x 1,000ml Stainless tube	101 x 168	3,600	3,680	3,600	3,680	053-7310	
	6 x 1,100ml Stainless tube	101 x 185	3,600	3,680	3,600	3,680	053-7310	
	6 x 1,000ml Plastics bottle	98 x 164	3,900	4,319	3,900	4,319	053-5970	
	6 x 400ml MAP Blood Bags		4,200	5,009	4,200	5,009	053-5970	
	12 x 200ml Triple Blood Bags		4,200	5,009	4,200	5,009	053-5970	

Swinging Bucket Rotors for tubes

RS-3900	400 x 1.8ml Sample cup	17 x 38			3,000	2,284		055-4960
	364 x RIA tube	9~11.4 x 75~110			3,000	2,485		055-0100
	364 x 6ml	11.5~13.4 x 75~110			3,000	2,485		055-0110
	320 x 10ml *4	12~13.5 x 75~110			3,000	2,485		055-0120
	356 x 10ml	12~13.5 x 75~110			3,000	2,485		055-0130
	200 x 15ml	15~17.2 x 75~110			3,000	2,485		055-0140
	224 x 15ml *4	15~17.2 x 75~110			3,000	2,485		055-0150
	252 x 15ml	15~17.2 x 75~110			3,000	2,485		055-0160
	56 x 50ml	27~36.5 x 75~110			3,000	2,485		055-0170
	60 x 50ml Conical (TC)	30 x 117			3,000	2,485		055-0180
	12 x 250ml Plastics bottle	60~62.3 x 80~136			3,000	2,485		055-0190

*1 When using the S12510 Angle Rotor, contact us. 1,000 ml stainless tubes are attached with sealing caps.

*2 Two types of plastic bottles made of polycarbonate and polypropylene are available.

*3 Specify a bucket.

*4 This tube rack is a two split type and easy to carry.

⚠ Rotors RS-7100, RS-7002, RS-6602 and RS-3900 have their replacement time (service life). Refer to the instruction manual.



RS-7100
Swinging Bucket Rotors



RS-7002
Swinging Bucket Rotors



RS-6602
Swinging Bucket Rotors



RS-3900
Swinging Bucket Rotors

Specifications

Model 9900

- Maximum Speed ● 6000 rpm
- Maximum RCF ● 8291 xg
- Maximum Capacity ● 6600 ml
- Control system ● Micro-processor control
Speed, RCF, Time, Acceleration & Deceleration, 99 channel memories
- Speed setting ● From 100 to 6000 rpm, 10 rpm increments
- Speed indication ● Digital display, From 100 to 6000 rpm, 10 rpm increments
- RCF setting ● From 10 to 8291 xg, 1 xg increments
- RCF indication ● Digital display, From 0 to 8291 xg, 1 xg increments
- Timer setting and indication ● Digital display, with Hold and Electric buzzer
from 1 sec. to 59 min 59 sec., in 1 sec. increment setting
from 1 min. to 99 hour 59 min., in 1 min. increment setting
- Temperature setting and indication ● Digital display, 0.1°C increments setting and indication from -20°C to 42°C
- Power requirements ● Single phase AC220V +10% -5%, 230V +10% -5%, 50/60Hz, 30A
- Rated voltage and Rated current ● Single phase AC220/230V, 50/60Hz, 15A
- Power consumption and Heat output ● 2200W · 7.9MJ/h
- Dimensions, weight ● 71(W) x 83(D) x 115(H)cm^{**}, 330kg

Model 9910

- Maximum Speed ● 7000 rpm
- Maximum RCF ● 11285 xg
- Maximum Capacity ● 6600 ml
- Control system ● Micro-processor control
Speed, RCF, Time, Acceleration & Deceleration, 99 channel memories
- Speed setting ● From 100 to 7000 rpm, 10 rpm increments
- Speed indication ● Digital display, From 100 to 7000 rpm, 10 rpm increments
- RCF setting ● From 10 to 11285 xg, 1 xg increments
- RCF indication ● Digital display, From 0 to 11285 xg, 1 xg increments
- Timer setting and indication ● Digital display, with Hold and Electric buzzer
from 1 sec. to 59 min 59 sec., in 1 sec. increment setting
from 1 min. to 99 hour 59 min., in 1 min. increment setting
- Temperature setting and indication ● Digital display, 0.1°C increments setting and indication from -20°C to 42°C
- Power requirements ● Single phase AC220V +10% -5%, 230V +10% -5%, 50/60Hz, 30A
- Rated voltage and Rated current ● Single phase AC220/230V, 50/60Hz, 15A
- Power consumption and Heat output ● 2800W · 10MJ/h
- Dimensions, weight ● 74(W) x 92(D) x 120(H)cm^{**}, 360kg

(* 1) Those of projections are not included.

All specifications and external appearance subject to change without notice.

* On Model 9900 and 9910 only use KUBOTA made rotor, adapter and tube rack. Do not attempt use rotors, adapters or tube racks made by other manufacturers.

* The rotor mentioned in the catalogue is usable on other KUBOTA centrifuge models. For details, refer to the catalogues relevant to each model.

* Follow instructions given in the relevant Instruction & Service Manual for operating centrifuges.



Safety Precautions

• For your safe use of this equipment, 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.



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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