Large Capacity Refrigerated Centrifuge

9912/9932

KUBOTA

ISO 9001 CERTIFIED
KUBOTA MFG. CORP.

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.

Features and Convenient functions

■**9912**
Maximum Speed 7,000rpm
Maximum RCF 11,285xg

■**9932**
Maximum Speed 4,000rpm
Maximum RCF 5,241xg

■**Electrical lid interlock system realizes the secured locking of the metal lid and easy opening and closing of the lid.**

■**Imbalance allowance is 60 grams.**
A bag for weighted and collected blood can be centrifuged as is. If there is a big difference in weight of the bag, the operation will stop.

■**A special suspension system enables the stable centrifugation.**

■**Compliance with GMP requirements**
Tachometor port provided on the lid makes it easier to check the actual speed.

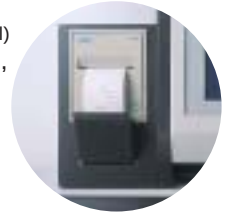
■**Rotor stop lamp and the electric buzzer attract the operator's attention. The end of the operation is recognized from across the room.**

■**Acceleration and deceleration curve can be varied in 10 steps according to the type of samples and experimental conditions.**

■**Integrator function is available.**
g·sec measurement and g·sec setting operation lead the ideal separation of the sample.

■**Inner cup (055-6220) is designed for easy handling.**
Two 450mL quadruple blood bags are inserted in one cup. The inner cup is so designed that it does not fall down at the time when one bag is taken out while the other is kept inside. The separator prevents the bag from contaminating when the bag is broken during the operation. The size of the inner cup is large enough to accommodate the two bags and the connecting tubes.

■**A log printer can be used.** (optional)
By adding a printer to the main unit, operation results and operating conditions for each centrifuge can be printed out.



■**99 channel memory**
99 operating condition memory settings are available for repeated routine operation.

Inner cup 055-6220

• There is a separator at the center to divide into two rooms.

• The blood bag is accommodated independently.

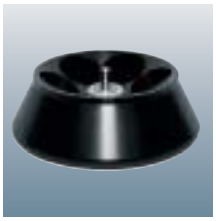
• The inner cup is so designed to keep standing up firmly when one room is empty.

Rotor Table for Model 9912

[Note] Only one rotor in the table can be used for 9912.

Rotor Name	Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
Fixed Angle Rotor						
K12510 *1	6x1,000mL stainless steel bottle	100x172	7,000	11,285	—	—
	6x1,000mL plastic bottle *2	98x175	7,000	11,285	—	S13511
Swinging Bucket Rotor						
RS-8080	8x200mL quadruple blood bag	—	4,200	5,186	—	055-6230 *5
	8x450mL quadruple blood bag	—	4,200	5,245	—	055-6220
RS-7100	4x800mL blood bag	—	4,200	5,088	—	—
RS-7002	6x1,000mL plastic bottle	98x164	3,900	4,540	—	—
	6x450mL quadruple blood bag	—	4,200	5,265	—	—
	12x200mL quadruple blood bag	—	4,200	5,265	—	—
RS-6602 *3	6x1,000mL stainless steel bottle	101x168	3,600	3,680	053-7310	—
	6x1,100mL stainless steel bottle	101x185	3,600	3,680	053-7310	—
	6x1,000mL plastic bottle	98x164	3,900	4,319	053-5970	—
	6x450mL quadruple blood bag	—	4,200	5,009	053-5970	—
	12x200mL quadruple blood bag	—	4,200	5,009	053-5970	—
RS-3900	400x1.8mL sample cup	17x38	3,000	2,284	—	055-4960
	364xRIA tube	9～11.4x75～110	3,000	2,485	—	055-0100
	364x6mL	11.5～13.4x75～110	3,000	2,485	—	055-0110
	320x10mL *4	12～13.5x75～110	3,000	2,485	—	055-0120
	356x10mL	12～13.5x75～110	3,000	2,485	—	055-0130
	200x15mL	15～17.2x75～110	3,000	2,485	—	055-0140
	224x15mL *4	15～17.2x75～110	3,000	2,485	—	055-0150
	252x15mL	15～17.2x75～110	3,000	2,485	—	055-0160
	56x50mL	27～36.5x75～110	3,000	2,485	—	055-0170
	60x50mL conical tube	30x117	3,000	2,485	—	055-0180
	12x250mL plastic bottle	60～62.3x80～136	3,000	2,485	—	055-0190

Applicable to Model 9912 only



K12510
Fixed Angle Rotor

RS-8080
Swinging Bucket Rotor

RS-7100
Swinging Bucket Rotor

RS-7002
Swinging Bucket Rotor

RS-6602
Swinging Bucket Rotor

RS-3900
Swinging Bucket Rotor

Rotor Table for Model 9932

Rotor Name	Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
Swinging Bucket Rotor						
RS-8120	12x200mL quadruple blood bag	—	4,000	5,187	—	055-6230 *5
	12x450mL quadruple blood bag	—	4,000	5,241	—	055-6220

Applicable to Model 9932 only

RS-8120
Swinging Bucket Rotor

*1 In case of use of K12510 fixed angle rotor, please contact your dealer for delivery schedule. The stainless steel bottle is equipped with the sealing cap.
*2 There are two plastic bottles. One is made of polycarbonate and the other polypropylene.
*3 Choose the bucket.
*4 This tube rack is separated into two pieces for easy-carrying.
*5 In case of use this adaptor, the inner cup 055-6220 is required.

Specifications

	Model 9912	Model 9932
Maximum Speed	7,000rpm	4,000rpm
Maximum RCF	11,285xg	5,241xg
Maximum Capacity	6,600mL	6,000mL
Control System	Micro-processor control (Brushless motor) Speed, RCF, Time, Temperature, g·sec, Acceleration & Deceleration, 99 channel memories	Micro-processor control (Brushless motor) Speed, RCF, Time, Temperature, g·sec, Acceleration & Deceleration, 99 channel memories
Abnormality detected display	Lid open, Imbalance, Over speed, Abnormally High Temperature, Function for detecting an occurrence of electrical abnormality in motor, Inverter, Speed sensor and temperature sensor	Lid open, Imbalance, Over speed, Abnormally High Temperature, Function for detecting an occurrence of electrical abnormality in motor, inverter, Speed sensor and temperature sensor
Acceleration / Deceleration	10 levels selectors	10 levels selectors
Speed Setting	from 100 to 7,000rpm in 10rpm increments	from 100 to 4,000rpm in 10rpm increments
Speed Indication	from 0 to 7,400rpm in 10rpm increments	from 0 to 4,500rpm in 10rpm increments
RCF Setting	from 0 to 11,285xg in 1xg increments The centrifugal force differs by the rotation radius	from 1 to 5,241xg in 1xg increments
RCF Indication	from 0 to 12,734xg in 10xg increments	from 0 to 6,056xg in 1xg increments
Integrator Setting / Indication	Digital display, from 1.00 to 9.99x10^9 g·sec	Digital display, from 1.00 to 9.99x10^9 g·sec
Timer Setting / Indication	Digital display, with HOLD From 1 sec to 59 min 59 sec, in 1 sec increment setting/indication From 1 min to 99 hours 59 min, in 1 min increment setting/indication	Digital display, with HOLD From 1 sec to 59 min 59 sec, in 1 sec increment setting/indication From 1 min to 99 hours 59 min, in 1 min increment setting/indication
Temperature Setting / Indication	Digital display from –20˚C to 40˚C in 1˚C increment setting Indication range from –20˚C to 43˚C in 1˚C increment Control the rotor temperature	Digital display from –20˚C to 40˚C in 0.1˚C increment setting Indication range from –20˚C to 43˚C in 0.1˚C increment Control the rotor temperature
Refrigerant	R22	R404A
Power Requirements	Single phase AC220V±10%, AC230V±10% 30A	Single phase AC220V±10%, AC230V±10% 50/60Hz 40A
Rated Voltage and Rated Current	AC220V/230V, 50/60Hz 17A	AC220V/230V, 50/60Hz 24A
Power consumption and Heat output	2.8kW, 10MJ/h	3.7kW, 13MJ/h
Dimensions & Weight	74(W) x 92(D) x 119(H)cm(*1), 395kg	83(W) x 98(D) x 115(H)cm(*1), 460kg
Test standard	Class 1	Class 1
Operation environment	Temperature 10˚C to 40˚C, Atmospheric pressure 70 to 106 kpa (700 to 1,060 mbar) Humidity 30 to 85%	Temperature 10˚C to 40˚C, Atmospheric pressure 70 to 106 kpa (700 to 1,060 mbar) Humidity 30 to 85%

(*1) Those of projections are not included.
All specifications and external appearance subject to change without notice.
* On Model 9912/9932 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 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.

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.

KUBOTA CORPORATION

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