



High Capacity Refrigerated
Centrifuge

8730



High Capacity Centrifuge

8620



Capable of 4 x 1,000mL / 130 x 15mL
Compact size of 64(W) x 78(D) x 86(H)cm

Features and Convenient functions

• Auto interlock lid

Lid can be opened/closed using one hand.

To close lid

Push slightly and the lid locks automatically by an electrical interlock system.

To open lid

Press the lid open key and the lid opens automatically after releasing the interlock.

A foot switch (optional) also enables hand-free lid opening.

• Acceleration and Deceleration Characteristics

Acceleration and deceleration curves can be varied in nine steps according to the type of sample and experimental conditions. Acceleration speed and deceleration speed can be selected for the sample easy to stir.

Density gradient method is also possible.

• 10 channel memory

Ten (10) operation condition memory settings are available, with one-touch saving, access and operation possible.

• Integrator function that can attain optimization of centrifuging conditions

G-sec value (integrated RCF value) can be measured and the operation with this value set is possible.

• Keeping the sample temperature at 4°C

(applicable to Model 8730 only)

At the ambient temperature of 25°C.

• Temperature indication/setting

(applicable to Model 8730 only)

Either the temperature of the chamber or the sample temperature, which depends upon the type and the speed of the rotor, can be selected for indication/setting.

• Compliance with GMP requirements

Equipped with the tachometer port for measurement of the actual rotor speed.

• Safety pursued

8730 and 8620 conforms to International safety standard IEC 61010-2-020.

• 4x400mL MAP blood bag

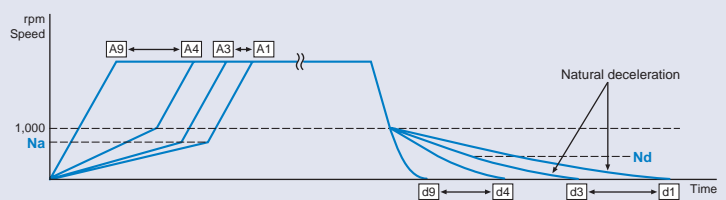
can be centrifuged by RS-4000 Swinging bucket rotor.



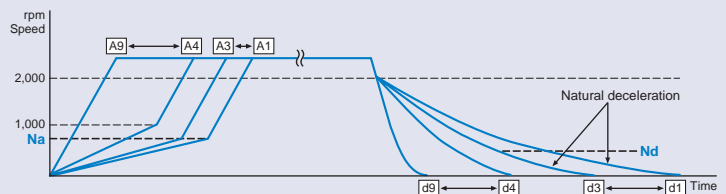
Foot switch (Optional)

The lid opens automatically when the switch is pressed. A newly designed gas spring produces smooth and quick opening, while hands-free opening makes the experiments easier.

Acceleration/deceleration characteristics graph for RS-1950 & RS-2200



Acceleration/deceleration characteristics graph for RS-4000



There are nine acceleration characteristics and nine deceleration characteristics. The most rapid acceleration is represented by A9 and the slowest one by A1. The most rapid deceleration is represented by d9 and the slowest one by d1.

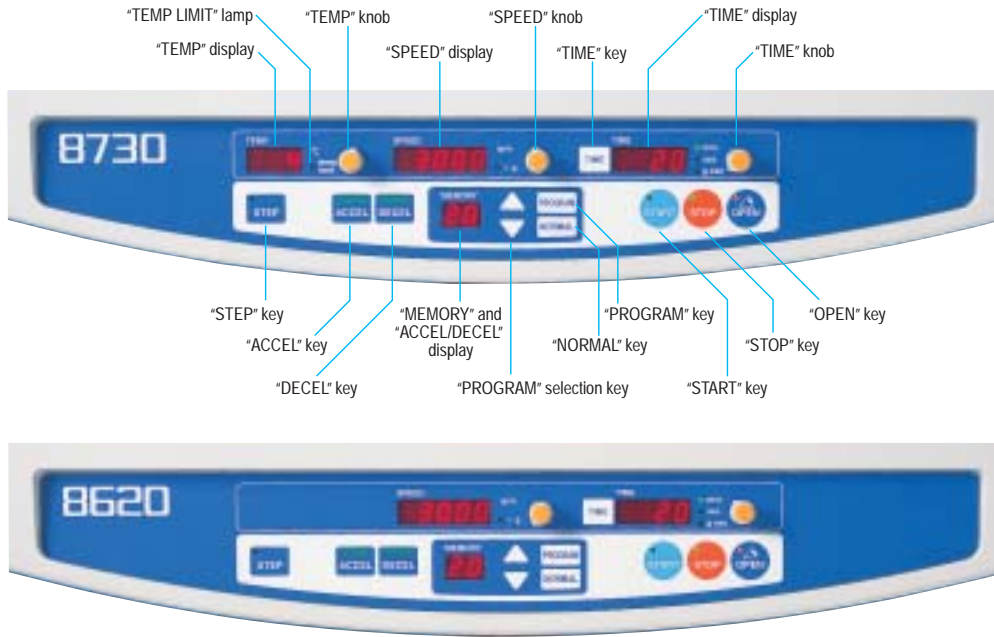
Acceleration speed of A8 to A4 changes at the speed 1,000rpm.

Deceleration speed of d8 to d1 changes at the speed 1,000rpm (RS-1950/2200) and 2,000rpm (RS-4000).

Acceleration characteristics change over speed point of Na in A1 to A3 can be set from 0 rpm to the maximum speed of the rotor.

Natural deceleration starts at the change over speed point of Nd in d1 to d3, which can be set from 0 rpm to the maximum speed of the rotor.

Operation Panel



Rotor, Bucket, Tube Rack Table for Model 8730/8620

The centrifuge accepts one kind of the rotors in the table.

Rotor Name	Nominal Capacity	Tube size (mm) diam. x length	8730		8620		Bucket Code No. *2	Tube Rack Adaptor Code No.
			Maximum Speed rpm	Maximum RCF xg	Maximum Speed rpm	Maximum RCF xg		
Swinging bucket rotor								
RS-4000	4x1,000mL	98x164	4,000	4,150	3,000	2,330	053-5980 • 053-0010	
	4x500mL Conical Bottle *1	96x147	4,000	4,150	3,000	2,330	053-5980 • 053-0010	431124 *1
	20x50mL Conical Tube	30x117	4,000	4,130	3,000	2,320	053-5980 • 053-0010	055-0310
	16x50mL	27 ~ 35.8x93 ~ 117	4,000	4,080	3,000	2,290	053-5980 • 053-0010	055-0330
	48x15mL Conical Tube	17x121	4,000	4,110	3,000	2,310	053-5980 • 053-0010	055-0300
	76x15mL	15 ~ 17.2x110 ~ 116	4,000	4,020	3,000	2,260	053-5980 • 053-0010	055-0320
	4x400mL MAP blood bag		4,000	4,150	3,000	2,330	053-5980 • 053-0010	055-6170L *3
	4x200mL MAP blood bag		4,000	4,150	3,000	2,330	053-5980 • 053-0010	055-6170L *3
4x200mL blood bag		4,000	4,150	3,000	2,330	053-5980 • 053-0010	055-6170L *3	
RS-1950	182xRIA Tube	9 ~ 11x75 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0020
	182x6mL	10 ~ 13x75 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0010
	182x10mL	12 ~ 13.5x75 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0030
	168x10mL *4	12 ~ 13.5x75 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0040
	130x15mL	15 ~ 17.2x70 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0050
	120x15mL *4	15 ~ 17.2x70 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0060
	28x50mL	27 ~ 36x75 ~ 110	3,000	1,760	3,000	1,760	attached to rotor	055-0070
	36x50mL Conical Tube	30x117	3,000	1,760	3,000	1,760	attached to rotor	055-0080
4x175/200/225mL Conical Tube *5	61x118/61x130/61x137	3,000	1,760	3,000	1,760	attached to rotor	055-0090	
6x250mL	60 ~ 62x80 ~ 136	3,000	1,760	3,000	1,760	attached to rotor	055-0090	
RS-2200	102x10mL Blood collecting tube/15mL	15 ~ 17.2x52 ~ 110	3,000	2,060	3,000	2,060	053-5370	
	6x250mL Conical Tube *6	60x161 ~ 173	3,000	2,270	3,000	2,270	053-5360	055-6160
	6x350mL Glass Tube	70x130	3,000	2,180	3,000	2,180	053-5360	

*1 Conical bottle made by Corning (Catalogue No.431123) requires cushion (Catalogue No.431124)
 *2 RS-4000 requires either bucket 053-5980 (sealed cap not available) or bucket 053-0010 (sealed cap available).
 *3 Inner cap 055-6170L protects the blood bag when spinning and gives smooth putting in and out of the blood bag.
 *4 The tube rack is separated into two and designed for easy handling.
 *5 175/225mL conical tubes made by Falcon (Catalogue No.352076/No.352075) requires cushion (Catalogue No.352090).
 200mL conical tube made by Nalge Nunc (Catalogue No.376813) requires cushion adaptor (Catalogue No.377585).
 *6 250mL conical tube is made by Corning (Catalogue No.430776).



RS-4000 Swinging Bucket Rotor
with Bucket 053-0010



Bucket
Code No.053-5980 Sealing cap not available
Code No.053-0010 Sealing cap available



RS-1950 Swinging Bucket Rotor



RS-2200 Swinging Bucket Rotor

Specifications

Model 8730 (Refrigerated Type)

- Maximum Speed ● 4,000rpm
- Maximum RCF ● 4,150xg
- Maximum Capacity ● 4,000mL
- Control System ● Micro-processor control (Brushless motor)
- Abnormality detected display ● Speed, RCF, Time, g-sec, Temperature, Acceleration & Deceleration, 10 channel memories
- Acceleration / Deceleration ● Lid open, Imbalance, Over speed, Abnormally High Temperature, Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock, speed sensor and temperature sensor
- Speed Setting ● 9 level selections
- Speed Indication ● Digital display, from 200 to 4,000rpm in 10rpm increments
- RCF Setting ● Digital display, from 10 to 4,150xg in 10xg increments
- RCF Indication ● Digital display, from 0 to 4,800xg in 10xg increments
- Integrator Setting / Indication ● Digital display, from 1.00 to 9.99x10³ g-sec
- Timer Setting / Indication ● Digital display, with HOLD
- Temperature Setting / Indication ● From 1 sec to 990 sec, in 1 sec increment setting and indication
- Refrigerant ● From 1 min to 990 min, in 1 min increment setting and indication
- Power Requirements ● Digital display
- Rated Voltage and Rated Current ● Setting range from -20°C to 40°C in 1°C increment
- Power consumption and Heat output ● Indication range from -20°C to 40°C in 1°C increment
- Dimensions & Weight ● Refrigerant ● R404A
- Test standard ● Power Requirements ● Single phase AC220V±10% 20A, AC230V±10% 20A
- Operation environment ● Rated Voltage and Rated Current ● AC220V 12A, AC230V 12A
- Operation environment ● Power consumption and Heat output ● 1.8kW, 6.5MJ/h
- Operation environment ● Dimensions & Weight ● 64(W) x 78(D) x 86(H)cm*, 205kg
- Operation environment ● Test standard ● IEC 61010-2-020 Class 1
- Operation environment ● Operation environment ● Temperature 10°C to 40°C, Atmospheric pressure 70 to 106 kpa, Humidity 30 to 85%

Model 8620 (Non-refrigerated type)

- Maximum Speed ● 3,000rpm
- Maximum RCF ● 2,330xg
- Maximum Capacity ● 4,000mL
- Control System ● Micro-processor control (Brushless motor)
- Abnormality detected display ● Speed, RCF, Time, g-sec, Acceleration & Deceleration, 10 channel memories
- Acceleration / Deceleration ● Lid open, Imbalance, Over speed, Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock and speed sensor
- Speed Setting ● 9 level selections
- Speed Indication ● Digital display, from 200 to 3,000rpm in 10rpm increments
- RCF Setting ● Digital display, from 10 to 2,330xg in 10xg increments
- RCF Indication ● Digital display, from 0 to 2,820xg in 10xg increments
- Integrator Setting / Indication ● Digital display, from 1.00 to 9.99x10³ g-sec
- Timer Setting / Indication ● Digital display, with HOLD
- Power Requirements ● From 1 sec to 990 sec, in 1 sec increment setting and indication
- Rated Voltage and Rated Current ● From 1 min to 990 min, in 1 min increment setting and indication
- Power consumption and Heat output ● Power Requirements ● Single phase AC110V±10% 20A, AC220V±10% 15A, AC230V±10% 15A
- Dimensions & Weight ● Rated Voltage and Rated Current ● AC110V 13A, AC220V 7A, AC230V 7A
- Test standard ● Power consumption and Heat output ● 0.9kW, 3.2MJ/h
- Operation environment ● Dimensions & Weight ● 64(W) x 78(D) x 86(H)cm*, 175kg
- Operation environment ● Test standard ● IEC 61010-2-020 Class 1
- Operation environment ● Operation environment ● Temperature 10°C to 40°C, Atmospheric pressure 70 to 106 kpa, Humidity 30 to 85%

(*1) Those of projections are not included.

All specifications and external appearance subject to change without notice.

* On Model 8730/8620 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.

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