

Compact High Speed Refrigerated Centrifuge

Model 6930

Inverter Microprocessor-controlled

Such a small sized centrifuge can make 3-liter (6 x 500ml bottles) centrifugation.

Notwithstanding the small size, this model can use the large capacity angle rotor "RA-3000" for 6 x 500ml bottles.

The sealing cap can be used for the new swing rotor "RS-410G" as a biohazard preventive means.

The maximum speed is 22,000 min⁻¹ (rpm). Maximum RCF of 48,700 x g is now possible to make by this class of a centrifuge.

Operation noise of a high-speed refrigerated centrifuge of compact dimensions has now become even more quieter, thanks to adoption of the new vibration proofing mechanism and the brush-less motor.

Employing a newly developed rotor identifying sensor which makes automatic identification of the rotor when a rotor is merely installed to the shaft. (Patented in Japan, U.S.A., Germany, U.K. and France) Settings and operations beyond the maximum revolution of the rotor are not workable.

Equipped with the functions for indication of the centrifugal acceleration (x g) and for operation under the preset centrifugal acceleration as standard specifications

The centrifugal acceleration (x g) will be indicated by a single touch operation, thus saving the time and complication to calculate the centrifugal acceleration. Once the centrifugal acceleration is preset, the revolution rate setting will be made automatically.

Installation of the integrator (an option) is possible.

Interlocking mechanism is being employed as the door locking means and it is of a twin-locking system at 2 places on the left-hand side and right-hand side.

The twin-locking system works to close the door and the chamber completely, thus preventing vibration of the door and generation of noise. This system is more effective than the single-side locking system.

The door interlocking mechanism can be released by simply stepping on the foot pedal. Hand operations are not necessary.

Equipped with the alarm indication function and automatic stopping function

This model is equipped with the alarm indication function reading [OPEN], [IMBAL], [SPEED], [ERROR] and [TEMP], respectively and with the automatic stopping function.

Abundant time settings are available starting from units of seconds to the "hold" range.

Five different time setting ranges of "1 second units", "10 seconds units", "1 minute units", "10 minutes units" and "hold" can be selected by a single-touch operation and selection of the most appropriate range for each centrifugation purpose can be made quickly and easily.

Equipped with the one-touch operation memory (3-channels) suitable for routine works.



Specifications

| | |
|--------------------|--|
| Maximum Speed | 22,000 min ⁻¹ (rpm) |
| Maximum RCF | 48,700 x g |
| Maximum Capacity | 3,000 ml |
| Control System | Micro-processor Speed, Time, Temp, Acceleration & Declaration, Memory |
| Power Requirements | Single phase AC200 - 230V, 50/60Hz, 24A |
| Dimensions Weight | 48 (W) x 72 (D) x 93 (H) cm ^(*) , 160kgs |

(*1) those of projections are not included.

All specifications and external appearance subject to change without notice.

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6930 Rotor and Accessories

| Type of Rotor | Rotor Name | Nominal Capacity | Maximum Speed (min ⁻¹) | Maximum RCF (× g) |
|-----------------------|---------------------------|-----------------------------|-------------------------------------|---------------------|
| Micro Rotor | RA-53G2 | 24 × 2.0ml | 22,000 | 44,370 |
| | RA-159G (*1) | 72 × 2.0ml | 13,500 | 24,250 |
| | RS-35G (*1) | 16 × 2.0ml Swing | 15,000 | 18,360 |
| Angle Rotor | RA-120 | 16 × 7ml | 22,000 | 48,700 |
| | RA-130 | 18 × 7ml | 19,500 | 43,790 |
| | RA-150 | 12 × 12ml | 21,000 | 47,330 |
| | RA-290 | 24 × 12ml | 17,000 | 36,190 |
| | RA-300G | 6 × 50ml | 20,000 | 43,380 |
| | RA-400 | 8 × 50ml | 17,500 | 36,980 |
| | RA-410 | 8 × 50ml Conical (TC) | 10,000 | 13,420 |
| | | 12 × 50ml Conical (TC) | 10,000 | 15,880 |
| | | 12 × 15ml Conical (TC) | 10,000 | 13,300 |
| | RA-800 | 8 × 100ml | 13,500 | 26,690 |
| | RA-1500 | 6 × 250ml | 11,500 | 21,000 |
| | RA-2000 | 4 × 500ml | 8,500 | 12,360 |
| | RA-3000 | 6 × 500ml | 8,000 | 12,090 |
| | RA-360G | 24 × 15ml | 3,500 | 2,270 |
| Swinging Rotor | RS-30 | 4 × 7ml | 15,000 | 24,650 |
| | RS-200G | 4 × 50ml | 11,500 | 20,700 |
| | RS-410G (*1, *2) | 12 × 15ml Conical (TC) | 5,000 | 4,160 |
| | | 28 × 15ml | 5,000 | 4,160 |
| | | 4 × 50ml Conical (TC) | 5,000 | 4,160 |
| | RS-480 (*1) | 8 × 50ml Conical (TC) | 3,500 | 2,270 |
| | | 16 × 15ml Conical (TC) | 3,000 | 1,770 |
| RS-720G (*1) | 32 × 15ml Conical (TC) | 3,500 | 2,330 | |
| Rotor for Microplate | RS-96G | 4 × 96/120 wells microplate | 2,000 | 740 |
| | RMP-21G | 6 × 96 wells microplate | 5,000 | 2,990 |
| | | 2 × Tissue culture plate | 5,000 | 2,990 |

(* 1) Many different buckets, tube racks and adapters of other capacities than what are listed above are also available. Contact us for details.

(* 2) The sealing cap (Code No. S17111) is usable with the RS-410G.

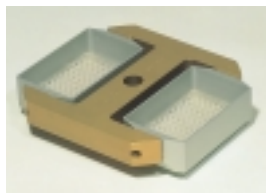
(*) Tubes are not attached to these rotors.



RA-159G
72 × 2.0ml



RA-53G2
24 × 2.0ml



RMP-21G
For Micro plates and Tissue culture plates



RA-300G
6 × 50ml



RA-410
8 × 50ml Conical (TC)



RA-120
16 × 7ml



RA-3000
6 × 500ml



RS-410G
The shield cover (Code No.S17111) is being sold separately.



Integrator
This integrator enables to set and operate this device in "total g sec centrifuging" mode ensuring better separation of samples.

* On Model 6930 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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