

# Hybrid Refrigerated Centrifuge



# 6200



As operations in a laboratory diversify, centrifuges are expected to cover a wide variety of applications such as those for genomics and proteomics with one single model, accepting up to 20 different rotors.

Amid such a wide variety of rotors, Kubota has developed specially designed rotors for the 6200 model, grasping the emerging changes in the market. For example, the AF-5004CH rotor can centrifuge 4 x 50mL conical tubes at 22,140xg (15,000rpm) to extract "sticky" proteins. Another example is the AF-2730 and AF-5004CS rotors, both of which are highly recommended to those handling biohazardous samples.

To exploit a wide variety of unique rotors, the 6200 is equipped with one-touch rotor function and automated rotor identification that enables exchanging rotors just by selecting the appropriate setting.

**KUBOTA**





## What is "Hybrid" ?

As life science reveals secrets of life, scientists are working hard to understand the complex inter- and intra-cellular system. As a result, applications that researchers must carry out are extending from genomics to proteomics and vice versa.

Kubota's 6200, due to its wide rotor variety, is known as a "hybrid" centrifuge. The 6200 accepts a fixed angle rotor for micro tubes as well as a swinging bucket rotor. In addition, AF5008CA and AF-5004CH, both of which can allow conical tube centrifugation, are available for protein extraction and purification.

To exploit its wide rotor variety, the 6200 has a one-touch rotor function that enables exchanging rotors just by setting.

### One-touch Rotor Function

One-touch rotor function enables exchanging rotors just by setting, without fastening the rotor with a standard hexagonal wrench key.



### Wide Rotor Variety

The 6200 accepts a total of 20 different types of rotors, including fixed angle rotors for both micro and conical tubes as well as swinging bucket rotors and plate rotors.



### Automatic Rotor Identification (patent/patent pending)

### Five Memory Channels

### Memory Flashing

The memory flashing function allows storage of the operating time automatically and recall repeatedly.

### Pre-cooling Function

Generally, proteins are easily deactivated at normal temperature. Under typical conditions applying samples with high speed requires a long time to reach the desired low temperature. In such cases, pre-cooling enables the samples to reach a low temperature before the experiment, thus avoiding deactivation of valuable samples.

### High-speed Conical Rotor

As life science reveals the secrets of life, studying various kinds of proteins is increasingly important in order to understand inter- and intra-cellular reactions and behaviors.



Some particular proteins require high-speed centrifugation due to their "sticky" characteristic. While researchers usually spin conical tubes for protein extraction or purification, high g-force centrifugation, for example, over 20,000xg usually causes tube failure such as neck bending or cracks.

The AF-5004CH, newly developed fixed angle rotor, enables high g-force centrifugation without damage to tubes, taking full advantage of Kubota's expertise; specifically speaking, the rotors are specially designed to avoid neck bending and accommodate tubes in a perfectly fitting manner.

# Hybrid

### Specifications

	6200
Maximum speed	16,000rpm
Maximum RCF	23,470xg
Maximum capacity	1,020mL
Dimensions WxDxH (mm)	500x650x850
Weight	118kg

### User-friendly Rotor Design

Various kinds of tubes such as 0.5/0.2mL PCR tubes are applied in a genomic sequencing process. The AF-2724A and AF-2536A rotors, designed with user-friendliness in mind, accept 0.5/0.2mL PCR tubes as well as standard 1.5/2mL tubes without setting adaptors.



### Rotor Compatibility With Micro Centrifuges

The 6200 has a rotor compatible with other micro refrigerated centrifuges (3700 series) and 3400. Thus, those who possess a 3700 series or 3400 can enjoy sharing rotors with the 6200.

### g·sec integrator function

RCF(xg)-set operation function and stepped centrifugal force function

# Biohazard-proof rotors



In a diagnostic test for infectious diseases such as SARS, a sealed rotor, which can keep aerosol and sample liquid under its lid even when tubes are broken during the centrifugation process, is highly recommended in order to improve the safety of researchers.



**AF-2730**  
30x2mL, 14x0.5/0.2mL

Kubota's biohazard-proof rotors are certified with the CAMR standard, the de-facto standard for carrying out a rotor containment test using dynamic microbiological technique. These certified rotors improve user safety.



**AF-5004CS**  
4x50mL conical

Designed and manufactured based upon the CAMR standard.



**SF-410**  
(with S13104 and S17111)  
28x10mL (blood collecting)

## Alarm Indicator and Automatic Stop Function

Various alarm indicators and automatic stop functions improve safety further and stop the operation immediately after activation in the case of an emergency. The 6200 model is equipped with an alarm indication function including imbalance detection, abnormally high temperature detection, speed sensor and temperature sensor fault detection. The rotor sensor detects whether the rotor is set correctly to the drive shaft. In addition, the unit is fitted with a circuit breaker.

## Plate Centrifugation



PF-745S

For screening a wide variety of targets, plate centrifugation can save researchers time and energy. One example is that ethanol precipitation with Kubota's microplate rotor: plate centrifugation at 3,000xg will produce purified DNA, and scientists can decipher the precise DNA sequence together with PCR operation.

Now, researchers do not have to put tubes one by one into fixed angle rotors, a cumbersome process just for DNA extraction.

Kubota is providing several more rotors to meet customers' demands. To be more specific, please contact our distributor.

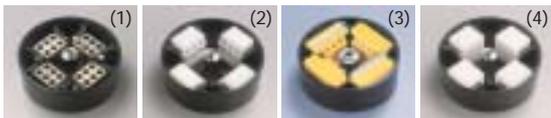


Tray (Code No.055-6380)  
(optional)

## Multi rotor for micro tubes, MF-2036

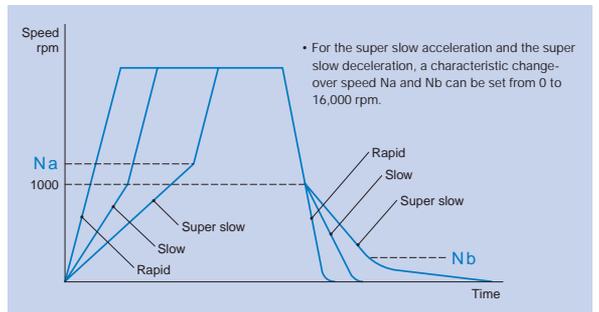
The MF-2036, a multi rotor for micro tubes, provides a reasonable solution to apply various types and sizes of tubes simply by changing buckets.

- (1) Swinging Bucket: 24 x 2mL
- (2) Fixed Angle Bucket: 24 x 2mL
- (3) Combined Fixed Angle Bucket:  
8 x 0.2mL 8-PCR-strips / 12 x 2mL
- (4) Horizontal Bucket: 36 x 2mL



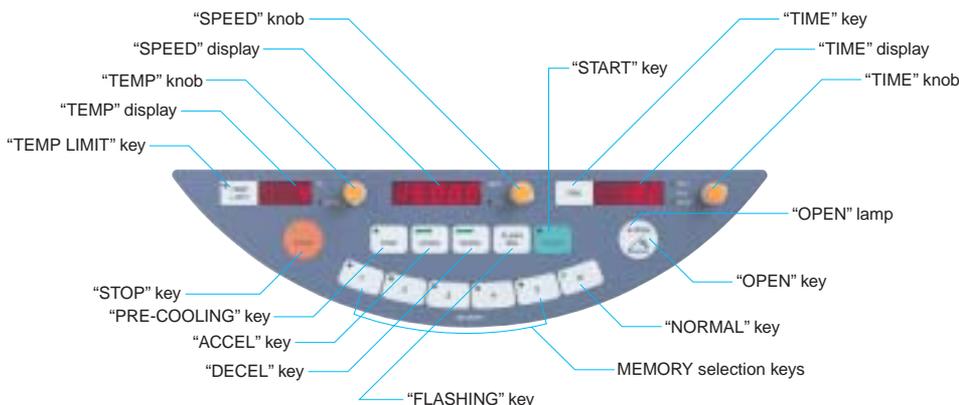
## Acceleration/Deceleration (three-level switching)

The 6200 provides three-level switching for both acceleration and deceleration, corresponding to application requirements.



Equipped with a GMP requirements tachometer port

Improvement of ease of setting and operations, and visibility is designed-in.



Sample can be cooled down to 4°C. However, in case of the rotor showing the RCF in ( ), 4°C can be realized at the RCF in ( ). (At the ambient temperature 25°C)

As to the indication of RCF, please refer to the instruction and service manual.

## Fixed Angle Rotor for Micro tube

Rotor Name	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
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### AF-2018

18x2mL	9.5 ~ 11.0x36 ~ 42	15,000	20,630		
18x0.5mL	7.0 ~ 7.9x25 ~ 34	15,000	18,110		055-7590
18x0.4mL	5.4 ~ 6.1x26 ~ 48	15,000	20,120		055-7580
18x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	15,000	15,850		055-0500

The AF-2018 can reach top speed within 10 seconds with the highest level of acceleration.

autoclavable (121°C) \*11

### AF-2724A

24x2mL	9.5 ~ 11.0x36 ~ 42	16,000	23,470		
12x0.5mL	7.0 ~ 7.9x25 ~ 34	16,000	19,180		
24x0.4mL	5.4 ~ 6.1x26 ~ 48	16,000	23,180		055-7580
12x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	16,000	16,890		

The AF-2724A rotor accepts 0.2mL PCR/0.5mL tubes as well as 2mL micro tubes without adaptors.

autoclavable (134°C) \*11

### AF-2730

30x2mL	9.5 ~ 11.0x36 ~ 42	14,000	21,040		
14x0.5mL	7.0 ~ 7.9x25 ~ 34	14,000	17,530		
30x0.4mL	5.4 ~ 6.1x26 ~ 48	14,000	20,380		055-1240
14x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	14,000	16,430		

The AF-2730 rotor improves the safety of researchers against biohazards, certified with the CAMR standard.

autoclavable (134°C) \*11

### AF-2536A

36x2mL	9.5 ~ 11.0x36 ~ 42	15,000 (14,000)	21,880 (19,060) *1		
12x0.5mL	7.0 ~ 7.9x25 ~ 34	15,000 (14,000)	17,610 (15,340)		
36x0.5mL	7.0 ~ 7.9x25 ~ 34	15,000 (14,000)	19,620 (17,090) *1		055-7590
36x0.4mL	5.4 ~ 6.1x26 ~ 48	15,000 (14,000)	21,630 (18,850) *1		055-7580
36x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	15,000 (14,000)	17,360 (15,120) *1		055-0500

The AF-2536A rotor accepts both 0.5mL and 2mL micro tubes without adaptors.

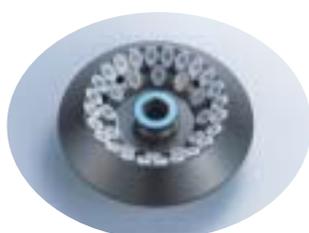
autoclavable (134°C) \*11

### AF-2048

48x2mL	9.5 ~ 11.0x36 ~ 42	12,000 (11,500)	15,780 (14,490) *1		
48x0.5mL	7.0 ~ 7.9x25 ~ 34	12,000 (11,500)	14,330 (13,160) *1		055-7590
48x0.4mL	5.4 ~ 6.1x26 ~ 48	12,000 (11,500)	15,620 (14,340) *1		055-7580
48x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	12,000 (11,500)	12,880 (11,830) *1		055-0500

The AF-2048 rotor, specially designed, can centrifuge 48 x 2mL tubes at one time.

autoclavable (121°C) \*11



## Fixed Angle Rotor (Middle Size)

Rotor Name	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
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### AF-1408A

8x14mL *2	17x75 ~ 100	12,000	14,170		
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autoclavable (121°C) \*11



### AF-5004CS

4x50mL Conical tube	30x117	12,000	14,970		
4x15mL Conical tube	17x121	12,000	14,490		055-1280

The AF-5004CS rotor improves the safety of researchers against biohazards, certified with the CAMR standard.

autoclavable (134°C) \*11



### AF-5004CH

4x50mL Conical tube	30x117	15,000	22,140		
4x15mL Conical tube	17x121	15,000	21,130		055-1250

The AF-5004CH can spin 4 x 50mL conical tubes at 22,140xg (15,000rpm), without damage to tubes due to its special design.

autoclavable (121°C) \*11



### AF-5004R

4x50mL	28.7 ~ 29.0x103 ~ 109	15,000 (14,000)	21,880 (19,060)		
4x12mL	15.9 ~ 16.4x103 ~ 110	15,000 (14,000)	20,630 (17,970)		055-7410
4x10mL	16.0 ~ 16.3x79 ~ 92	15,000 (14,000)	20,630 (17,970)		055-4280 *3

autoclavable (121°C) \*11



### AF-3806

6x38mL	25.4 ~ 25.7x87 ~ 95	15,000 (14,500)	21,880 (20,450)		
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autoclavable (121°C) \*11



### AF-5008C

8x50mL Conical tube	30x117	10,000 (9,500)	13,420 (12,110)		
8x15mL Conical tube	17x121	10,000 (9,500)	13,190 (11,910)		055-1280

## Plate Rotor



Rotor Name Nominal Capacity	Maximum Size of Plate mm	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
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### PF-21

6x microplate <sup>*7</sup>	86(W)x130(D)x62(H)	5,000	3,100	attached to rotor	
2x deepwell plate <sup>*7</sup>					

The PF-21 can do ethanol precipitation at 3,100xg.  
autoclavable (121°C) <sup>\*11</sup>



### PF-23

6x microplate <sup>*7</sup>	86(W)x128(D)x52(H)	4,000	1,790	attached to rotor	
2x deepwell plate <sup>*7</sup>					

autoclavable (121°C) <sup>\*11</sup>



### PF-89

8x microplate <sup>*7</sup>	86(W)x130(D)x89(H)	2,400	1,080	attached to rotor	055-6370
4x deepwell plate <sup>*7</sup>					

Can centrifuge 8 microtiter plates or a deep-well plate + 2 filter plates.



### PF-745S\*

12x microplate <sup>*7</sup>	86(W)x128(D)x90(H)	4,200	3,100	attached to rotor	055-6380
4x deepwell plate <sup>*7</sup>					

Can centrifuge 12 microtiter plates or 4 deep-well plates. Can do ethanol precipitation at 3,100xg.

\* Tray (Code No.055-6380) is necessary.

## Multi Rotor MF-2036



Type of Bucket Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
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### Swinging Bucket

24x2mL	9.5 ~ 11.0x36 ~ 42	13,000	13,980	053-9850	
24x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	11,530	053-9850	055-7590
32x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	12,280	053-9860	
24x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,600	053-9850	055-7580
40x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,790	053-9870	
24x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	13,000	9,070	053-9850	055-0500



### Fixed Angle Bucket

24x2mL	9.5 ~ 11.0x36 ~ 42	13,000	13,790	053-9880	
24x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	11,710	053-9880	055-7590
36x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	13,790	053-9890	
24x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,600	053-9880	055-7580
60x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,600	053-9900	
24x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	13,000	9,640	053-9880	055-0500



### Combined Fixed Angle Bucket

12x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	10,000	4,920	053-6210	055-0500
8x0.2mL 8 serial PCR	5.9 ~ 6.3x20 ~ 24	10,000	7,710 <sup>*1</sup>	053-6210	
12x2mL	9.5 ~ 11.0x36 ~ 42	10,000	6,710	053-6210	
12x0.5mL	7.0 ~ 7.9x25 ~ 34	10,000	5,810	053-6210	055-7590
12x0.4mL	5.4 ~ 6.1x26 ~ 48	10,000	6,600	053-6210	055-7580



### Horizontal Bucket

36x2mL	9.5 ~ 11.0x36 ~ 42	13,000	13,980	053-9910	
36x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	11,530	053-9910	055-7590
48x0.5mL	7.0 ~ 7.9x25 ~ 34	13,000	13,790	053-9920	
36x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,600	053-9910	055-7580
100x0.4mL	5.4 ~ 6.1x26 ~ 48	13,000	13,980	053-9930	
36x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	13,000	9,070	053-9910	055-0500

## Swinging Bucket Rotor



Rotor Name	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
<b>SF-2516</b>					
Nominal Capacity					
16x2mL	9.5 ~ 11.0x36 ~ 42	15,000	18,360	053-5130	
4x0.5mL	7.0 ~ 7.9x25 ~ 34	15,000	16,100	053-5130	
20x0.5mL	7.0 ~ 7.9x25 ~ 34	15,000	16,100	053-5140	
36x0.4mL	5.4 ~ 6.1x26 ~ 48	15,000	18,360	053-5150	
16x0.2mL PCR	5.9 ~ 6.3x20 ~ 24	15,000	11,820	053-5130	055-0500



Rotor Name	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
<b>SF-720</b>					
Nominal Capacity					
80x2mL	9.5 ~ 11x36 ~ 42	3,500	2,290	053-5820	055-4800
96x1.8mL Sample cup	17x38	3,500	2,040	053-5820	055-4940
96xRIA tube	10 ~ 12x70 ~ 95	3,500	2,190	053-5820	055-4730
80x10mL	12 ~ 14x70 ~ 95	3,500	2,260	053-5820	055-4740
48x10mL blood collecting tube/15mL	15 ~ 17.2x75 ~ 110	3,500	2,330	053-5820	055-4750
68x7mL blood collecting tube	12.5 ~ 13.5x75 ~ 110	3,500	2,300	053-5840	055-0260
68x10mL blood collecting tube/15mL	15 ~ 17.2x75 ~ 110	3,500	2,300	053-5840	
28x15mL Conical tube	17x121	3,500	2,300	053-5840	
32x15mL Conical tube	17x121	3,500	2,330	053-5820	055-4780
8x50mL	27 ~ 36.5x75 ~ 110	3,500	2,330	053-5820	055-4760
16x50mL Conical tube	30x117	3,500	2,330	053-5820	055-6070
4x100mL	38 ~ 46.5x75 ~ 120	3,500	2,330	053-5820	055-4770
4x175mL Conical tube *5	61x118	3,500	2,330	053-5820	055-4850
4x200mL Conical tube *5	61x130	3,500	2,330	053-5820	055-4850
4x225mL Conical tube *5	61x137	3,500	2,330	053-5820	055-4850
4x250mL	60 ~ 61.8x100 ~ 130	3,500	2,380	053-5820	055-4850

The SF-720, one of the Kubota's best-selling rotors, accommodates 68 x 10mL blood collecting tubes as well as 4 x 250mL bottles.



Rotor Name	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
<b>SF-410</b>					
Nominal Capacity					
48x2mL	10.7x42	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17008
48x5mL	12.5x75	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17006
48x7mL	12 ~ 12.5x100 ~ 112	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17007
28x7mL blood collecting tube	12.5 ~ 13x75 ~ 106	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17027
12x15mL Conical tube *6	16.5x120.6	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17019
12x15mL Conical tube *6	16.5x120.6	5,000 (4,500)	4,470 (3,620)	S13130	
28x10mL blood collecting tube/15mL	15.5 ~ 17x90 ~ 110	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17015
4x50mL	34x110	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17050
4x50mL	27 ~ 36.5x75 ~ 110	5,000 (4,500)	4,160 (3,370)	attached to rotor	055-5670
4x50mL Conical tube	29.5x117	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17049
4x100mL	44 ~ 45x110	5,000 (4,500)	4,160 (3,370)	attached to rotor	S17100
4x200mL	56.5x104	5,000 (4,500)	4,160 (3,370)	attached to rotor	

The cover on the bucket is the sealing cap (Code No.S17111) (optional)

The SF-410 rotor can keep aerosol and sample liquid under its sealing caps, with which the rotor is certified with the CAMR standard. autoclavable (121°C) \*11



Rotor Name	Rotation Radius cm	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
<b>SF-240</b>						
Nominal Capacity						
24x2mL	13.5	9.5 ~ 11.0x36 ~ 42	4,000	2,410	053-4800	
24x5mL blood collecting tube/10mL *9	13.6	16.0 ~ 16.3x79 ~ 92	4,000	2,430	053-5850	
4x10mL blood collecting tube/15mL	14.2	15.0 ~ 17.2x85 ~ 110	4,000	2,540	053-4910	
4x15mL Conical tube	14.4	17x121	4,000	2,580	053-4910	
8x10mL blood collecting tube/15mL	14.1	15.0 ~ 17.2x85 ~ 110	4,000	2,520	053-4900	
8x15mL Conical tube	14.4	17x121	4,000	2,580	053-4900	
4x10mL blood collecting tube/15mL	14.0	15.0 ~ 17.2x85 ~ 110	4,000	2,500	053-4990	055-7400 *10
4x50mL	14.2	28.7 ~ 29.0x103 ~ 109	4,000	2,540	053-4990	
4x50mL Conical tube	14.3	30x117	4,000	2,560	053-5010	
4x15/50mL Conical tube	14.6/14.0	17x121/30x117	4,000	2,610/2,500	053-5010	055-6010 *4

\* 1 The RCF figure shows the RCF of the outer tube.

As to the details, please contact your local dealer.

\* 2 Tube made by Falcon (Code No.2006 and 2059) is used.

\* 3 This adaptor is bio-hazard-proof.

\* 4 This adaptor is applicable for both 15mL and 50mL conical tubes.

\* 5 175mL conical tube is made by Falcon (Code No.2076) and requires a cushion (Code No.2090).

200mL conical tube is made by Nalge Nunc (Code No.376813) and requires a cushion adaptor (Code No.377585).

225mL conical tube is made by Falcon (Code No.2075) and requires a cushion (Code No.2090).

\* 6 S17019 tube rack cannot be accommodated with the sealing cap.

Code No.S13130 12x15mL conical tube bucket can be accommodated with the sealing cap (Code No.S17111).

\* 7 Please check the strength of plates before using the centrifuge. The plate at the bottom may be damaged.

\* 8 The maximum centrifugal force is indicated at the rotation radius of 14.4cm. Please refer to the operation and service manual of SF-240 rotor.

\* 9 The blood collecting tube is made by Becton & Dickinson.

\* 10 Cushion (Code No.024-1400) is required.

\* 11 Autoclavable times are limited. Please refer to Instruction and Service manual of the rotor.

\* 12 The picture shows various type of tube racks. The combination shown in the picture cannot be centrifuged.

## Specifications

### Model 6200

- Maximum Speed ● 16,000rpm
- Maximum RCF ● 23,470xg
- Maximum Capacity ● 1,020mL
- Control system ● Micro-processor control (Brushless motor)  
Speed, RCF, Time, Temperature, Acceleration & Deceleration, 5 channel memories
- Alarm display ● Lid open, Imbalance, Over speed, Rotor mounting abnormality, Abnormally high temperature  
Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock and speed sensor.
- Acceleration / Deceleration ● Three-level selectors; Rapid, Slow and Super Slow
- Speed setting ● From 200 to 16,000rpm, 10rpm increments
- Speed indication ● Digital display, From 0 to 16,500rpm, 10rpm increments
- RCF setting ● From 10 to 23,470xg, 10xg increments
- RCF indication ● Digital display, From 0 to 24,960xg, 10xg increments
- Integrator setting and indication ● Digital display, From 1.00 to 9.99x10<sup>9</sup> g-sec
- Timer setting and indication ● Digital display, with Hold and Flashing  
from 1 sec to 100 sec, in 1 sec increment setting  
from 100 sec to 990 sec, in 10 sec increments setting  
from 1 min to 100 min, in 1 min increment setting  
from 100 min to 990 min, in 10 min increments setting
- Temperature setting and indication ● Digital display, 1°C increments setting from -20°C to 40°C and indication from -20°C to 43°C
- Power requirements ● Single phase AC115V±10%, 50/60Hz, 15A  
Single phase AC220V±10%, 230V±10%, 50/60Hz, 10A
- Rated voltage and Rated current ● 115V, 10A 220/230V, 6A
- Power consumption and Heat output ● 800W - 2.9MJ/h
- Dimensions, weight ● 50(W) x 65(D) x 85(H)cm<sup>\*1</sup>, 118kg
- Refrigerant ● HFC134a

(\*1) Those of projections are not included.

All specifications and external appearance subject to change without notice.

\* On Model 6200 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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