

Multi-purpose Table Top Centrifuge

8420







80x15mL or 4x750mL can be Centrifuged by Swinging Bucket Rotor.

Easy-to-operate and convenient functions

Program memories (5 channels) for repeated routine operation

A memory function is available for repetitive operation using the same set values of operation. Once the set values are stored in the memory, simply pressing the "MEMORY" key enables repetition of operation after sample are loaded.

- Acceleration and deceleration curves can be varied in three steps according to the type of sample and experimental conditions.
- RCF (xg)-set operation function and stepped centrifugal force function
- G-sec value (integrated RCF value) set operation function
- Equipped with a tachometer port to comply with GMP requirements. Actual rotor speed is easy to check.

Safety persued

- 8420 conforms to the International Safety Standard IEC 61010-2-020.
- This model is designed such that the rotor does not come off when it is damaged during rotation.
 The lid is interlocked with two hooks provided at the right
- and the left side of the lid.

 The interlock part is protected from mechanical shock and is equipped with a double protected electrical circuit.
- The various alarm detector sensors secure operation.
 When the alarm is detected, the operation stops.

Design incorporates friendliness to the global environment and recycling.

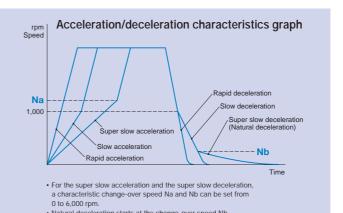
A limited amount of plastic is used to reduce the load on the environment.



Acceleration and deceleration characteristics

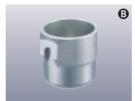
Acceleration and deceleration curves can be varied in three steps according to the type of sample and experimental conditions.

Acceleration and/or deceleration commencement speed can be selected for the sample easy to stir.





RS-3011 Swing Bucket Rotor with the shield cover (Code No.027-9210) The shield cover is easy to mount and dismount because of its clip system



Code No.053-5180 Bucket Maximum capacity of 4x750mL



Code No.053-5220 Bucket 8x microplate or 4x deep well plate can be centrifuged. No bar obstructs the plate from taking out.



Code No.053-5170 Bucket 8x microplate or 4x culture plate can be centrifuged.

Rotor, Bucket, Tube Rack

Rotor Name		Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed	Maximum RCF	Bucket Code No.	Tube Rack Adaptor
			g	rpm	xg		Code No.
winging Buck	et Ro	otor					
		140x6mL/RIA tube	10 ~ 12x65 ~ 100 (95)	3,300	2,150 *1	053-5310	055-5830
RS-3011		100x10mL	12 ~ 14.5x75 ~ 110 (105)	3,300	2,280	053-5310	055-5840
		80(64)x15mL	14.5 ~ 17.2x75 ~ 110 (105)	3,300	2,280	053-5310	055-5850
		16x15/50mL	15mL 14.5 ~ 17.2x75 ~ 135 (125) 50mL 27 ~ 36x75 ~ 115 (110)	3,300	2,280	053-5310	055-5860
	A	48x15mL conical tube	17x121 (121)	3,300	2,280	053-5310	055-4660
	*7	24x50mL conical tube	30x117 (117)	3,300	2,280	053-5310	055-4610
		8x100mL	38 ~ 46.5x75 ~ 120 (116)	3,300	2,280	053-5310	055-5870
		4x250mL	60 ~ 61.8x100 ~ 141 (136)	3,300	2,280	053-5310	055-6880
		4x350mL	65 ~ 71x100 ~ 130 (122)	3,300	2,280	053-5310	055-6890
		72x15mL	14.5 ~ 17.2x75 ~ 110	3,300	2,280	053-5180	055-0210
		16x50mL	27 ~ 36x75 ~ 114	3,300	2,280	053-5180	055-0240
	-	48x15mL conical tube	17x121	3,300	2,280	053-5180	055-0240
		16x50mL conical tube	30x117	3,300	2,280	053-5180	055-0220
	B	4x250mL *5		3,300	2,280	053-5180	055-4490
	U	4x350mL *3	65 ~ 71x100 ~ 130	3,300	2,280	053-5180	055-5880
					,		
		4x500mL conical tube *8		3,300	2,280	053-5180	
		4x650mL	84 ~ 86x100 ~ 125	3,300	2,280	053-5180	055-5890
		4x750mL	95 ~ 97.5x100 ~ 135	3,300	2,280	053-5180	
	0	8x microplate	88(W)x134(D)x50(H)	3,300	2,020 *1		
		4x deepwell plate	() - ()()	3,300	2,020 *1		
	0	8x microplate	92(W)x133(D)x36(H)	2,000	770 *1		055-5900
		8x culture plate		2,000	770 *1		
RS-730 *6		80x RIA tube	12x75 ~ 110	4,000	3,260	S13215	S18005
		48x7mL blood collecting tube	12.5 ~ 13x75 ~ 106	4,000	3,260	S13215	S18012
	9	48x15mL *3		4,000	3,260	S13215	S18015
		16x15mL conical tube	16.5x120.6	4,000	3,260	S13215	S18016
		8x50mL conical tube *2		4,000	3,260	S13215	S18052
		28x50mL conical tube	29.5x117	4,000	3,400 *1		
	a	12x microplate *4	86(W)x130(D)x49(H)	4,000	2,880 *1		
	J	4x deepwell plate *4		4,000	2,880 *1	S13220	
xed Angle Ro	tor						
RA-288M2		24x12mL	15.9 ~ 16.5x97 ~ 120	6.000	4,830		
		8x15mL conical tube	17x121	6,000	4,750		055-1280
RA-410M2		8x50mL conical tube	30x117	6,000	4,830		
RA-500M2		10x50mL	26.4 ~ 29.2x98 ~ 121	6,000	4,830		
late Rotor				-			
		6x microplate *4	- 86(W)x128(D)x52(H)	3,300	1,220		
PT-20	*1	2x deepwell plate *4				attached to rotor	
PT-21		6x microplate *4	86(W)x130(D)x62(H)	3,300	1,350		
	*1	2x deepwell plate *4				attached to rotor	
		8x microplate *4		2,400	1,080	attached to rotor	
PT-89	*1	<u> </u>					055-6370

- \$1 As to the indication of the RCF and the detection of the over speed, refer to the operation and service manual.
- *2 Tubes made by other company can be used with the shield cover. Please contact the local dealer.
 *3 In case that the shield cover is mounted, the tubes at the corner of the bucket cannot be accommodated. As a result, the number of the tubes to be accommodated decreases by 4 pieces per each bucket. (Example: Only 32 tubes can be accommodated in case of 15mL tubes in the S13215 bucket, rather than 48.)
- 44 Check the strength of the plate before operation. The plate on the lowest position in the bucket may be damaged.
 45 The conical tubes of 175mL, 200mL or 225mL can be used if the supporter is applied.
 175mL conical tube is made by Falcon (Code No.352076) and requires a cushion (Code No.352090).
- 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.352075) and requires a cushion (Code No.352090).

 *6 In case of use of RS-730 rotor at 4,000rpm, please contact your local dealer, as this application requires a special specification.
- If you use the swing bucket rotor and plate rotor in case of this special specification, please contact your local dealer.

 *7 The figures in parentheses show the length in case that the shield cover (Code No.027-9210) is used.

 *8 The tube is made by Corning (Code No.431123) and requires a cushion (Code No.431124).
- \$9 The tray is convenient for taking out the plate.



RS-730 Swing Bucket Rotor

The image shows the rotor with the aluminium bucket (Code No.S13215).



Shield cover for S13215 Code No.S17112 (Optional) Easy to mount and dismount

because of clip system

Code No.S13220 12x microplate or 4x deep well plate can be centrifuged.



RA-410M2 Fixed Angle Rotor 8x15mL conical tube/50mL conical tube



PT-20/21 Plate Rotor 6x microplate or 2x deep well plate can be centrifuged.

Specifications

Model 8420

Maximum Speed ● 6,000rpm

Maximum RCF • 4,830xg

Maximum Capacity • 3,000mL

Control system • Micro-processor control (Brushless motor)

Speed, RCF, Time, Acceleration & Deceleration, 5 channel memories

Alarm display . Lid open, Imbalance, Over speed, Rotor set state

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 6,000rpm, 10rpm increments

Speed indication ● Digital display, From 0 to 6,400rpm, 10rpm increments

RCF setting • From 10 to 4,830xg, 10xg increments

RCF indication • Digital display, From 0 to 5,550xg, 10xg increments (different by the rotor)

Integrator setting and indication • Digital display, From 1.00 to 9.99x10° g-sec

Step operation setting and indication . Speed, RCF, Time, Acceleration/Deceleration, one channel memory

Timer setting and indication . Digital display, with Hold and Electric buzzer

from 1 sec to 100 sec, in 1 sec increment setting/indication

from 100 sec to 990 sec, in 10 sec increments setting/1 sec increments indication

from 1 min to 100 min, in 1 min increment setting/indication

from 100 min to 990 min, in 10 min increments setting/1 min increments indication

Power requirements • Single phase AC115V±10%, 50/60Hz, 15A

Single phase AC220V±10%, 230V±10%, 50/60Hz, 8A

Rated voltage and Rated current • AC115V, 9.5A AC220/230V, 4.7A

Power consumption and Heat output • 115V, 640W 2.3MJ/h 220/230V, 750W 2.7MJ/h

Dimensions, weight ● 53(W) x 62(D) x 37(H)cm*1, 60kg

Test standard ● Manufactured and tested in accordance with IEC 61010-2-020

(*1) Those of projections are not included.

All specifications and external appearance subject to change without notice

* On Model 8420 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



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.



- •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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