

Table Top Refrigerated Centrifuge



5500

Various types of tubes can be centrifuged.

Features

- Maximum speed of 15,000rpm
- Maximum RCF of 21,040xg
- Rapid acceleration

10 sec to the maximum speed of 15,000 rpm when AT-2018M micro rotor is used.

Sample temperature kept at 4°C

At the ambient temperature of 25°C. See rotor table for details.

- Selective temperature indication/setting Either the temperature of the chamber or the sample temperature, which depends upon the type and the speed of the rotor, can be selected.
- Eco mode
- Auto interlock lid
- Bio-sealed Rotor

AT-2730M rotor is certified as bio-hazard proof with the CAMR standard.

Tool-less rotor

Rotors can be mounted or dismounted without using a tool (except RA-410M3 Fixed angle rotor).

Easy-to-use and convenient functions

Memory Flashing

Spin-down time from 1 to 90 seconds is memorized. Key-in of flashing button next time calls up the memorized spinning time.

- Program memories (5 channels) for repeated routine operation A memory function is available for repetitive operation using the same set values of operation, i.e. speed, time, and temperature.
- Acceleration and deceleration
- Acceleration and deceleration curve can be varied in three steps according to the sample and experimental conditions.
- Pre-cooling

Enables rotor to reach low temperature before experiments.

- · Buzzer at the end of operation
- 5 different buzzer sounds allow recognition of the end of a centrifugal operation from across the room.
- Compliance with GMP requirements

Equipped with a tachometer port for measurement of the actual rotor speed. Actual rotation radius can be set and the indication of correct RCF is realized.

Delayed start function

The operation automatically starts after the preset duration from pressing the START key. This function enables centrifuging of the fresh blood that is taken out at the time just when the erythrocytes coagulate.

- RCF (xg) -set operation function and stepped centrifugal force
- Integrator function that can attain optimization of centrifuging conditions.

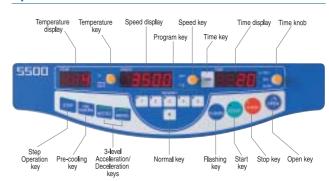
G-sec value (Integrated RCF value) can be measured and the operation with this value is possible.

· Equipped with an automatic rotor identification when a rotor is simply placed on the driver shaft.

Safety pursued

- 5500 conforms to the International Safety Standard IEC 61010-2-020.
- Equipped with various sensors for higher safety. Operation stops at the occurrence of an abnormality.

Operation Panel of Model 5500



Micro Rotor



AT-2018M 18 x 2ml



AT-2724M Multi-angle rotor 3 types of tubes, 2mL, 0.5mL and 0.2mLPCR can be used without adaptors.



AT-2730M Bio-sealed rotor

30 x 2mL Good for anti-biohazard usage. The bio-hazard proof rotor is certified with the CAMR standard.

Fixed Angle Rotor



AT-508C 8 x 50/15mL Conical tubes 12mL, 50mL tubes can be used.



RA-410M3 8 x 50/15mL Conical tube This rotor is not a tool-less rotor

Plate Rotor



PT-21M PT-21M can do ethanol precipitation at 3,100xg

Swinging Bucket Rotor



ST-720M The tube rack set in the rotor is for conical tube.



ST-410M

The cover at the top of the bucket is a sealing cap (Code No.K17111) (optional).

Note that the combination shown above was grouped for the photograph only. This arrangement cannot be used.

Rotor, Bucket, Tube Rack Table for Model 5500

Rotor Name		Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed rpm	Maximum RCF xg	Bucket Code No.	Tube Rack Adaptor Code No.
Micro rotor							
AT-2018M	18 x 2mL		9.5~11.0 x 36~42	15,000	20,630	_	_
	18 x 0.5mL		7.0~7.9 x 25~34	15,000	18,110	_	055-7590
	18 x 0.4mL		5.4~6.1 x 26~48	15,000	20,120	_	055-7580
	18 x 0.2mL PCR		5.9~6.3 x 20~24	15,000	15,850	_	055-0500
AT-2724M	24 x 2mL		9.5~11.0 x 36~42	15,000	20,630	_	
	12 x 0.5mL		7.0~7.9 x 25~34	15,000	16,850	_	
	24 x 0.4mL		5.4~6.1 x 26~48	15,000	20,380	_	055-7580
	12 x 0.2mL PCR		5.9~6.3 x 20~24	15,000	14,840	_	
BS AT-2730M	30 x 2mL		9.5~11.0 x 36~42	14,000 *1	21,040	_	
	14 x 0.5mL		7.0~7.9 x 25~34	14,000 *1	17,530	_	
	30 x 0.4mL		5.4~6.1 x 26~48	14,000 *1	20,380	_	055-1240
		14 x 0.2mL PCR	5.9~6.3 x 20~24	14,000 *1	16,430	_	
Fixed Angle Ro	tor RA-410M3	is not a tool-less rotor.				1 1	
AT-508C		8 x 12mL (plastic) *2	15.9~16.5 x 97~120	6,000	5,110	_	055-1120
	8 x 14mL *3		17 x 100	6,000	4,990	_	055-0550
	8 x 15mL Conical tubes		17 x 121	6,000	5,270	_	055-1280
		8 x 50mL (plastic) *4	26.4~28.8 x 98~115	6,000	4,990	_	055-1110
	8	x 50mL Conical tubes	30 x 117	6,000	5,350	_	_
		Vivaspin 2	16.7 x 129	6,000	5,270	_	055-1280
	Sartorius	Vivaspin 6	16.7 x 129	6,000	5,270	_	055-1280
		Vivaspin 20	30 x 117	6,000	5,350	_	— 055.0070
		Centricon	15.5 x 126.5	6,000	5,150	_	055-0870
	Millipore	Amicon Ultra-4	17 x 129	6,000	5,270	_	055-1280
		Amicon Ultra-15 8 x 12mL (plastic) *2	30 x 121	6,000 10,000 *1	5,350	_	
RA-410M3		* · · · = · · · = (p · · · · · ·)	15.9~16.5 x 97~120	,	12,970	_	055-1120
		8 x 14mL *3 x 15mL Conical tubes	17 x 100 17 x 121	,	12,630	_	055-0550
	8		26.4~28.8 x 98~115	,	13,190	_	055-1280 055-1110
	0 11 0 0 11 12 (P 10 10 11 1)			,	12,860	_	055-1110
	- 0	x 50mL Conical tubes Vivaspin 2	30 x 117 16.7 x 129	10,000 *1 10,000 *1	13,420 13,190	_	OFF 1290
	Sartorius	Vivaspin 6	16.7 x 129	10,000 *1	13,190	_	055-1280 055-1280
	Sartorius	Vivaspin 0	30 x 117	10,000 *1	13,420	_	055-1260
		Centricon	15.5 x 126.5	10,000 *1	13,080		055-0870
	Millipore	Amicon Ultra-4	17 x 129	10,000 *1	13,190	_	055-1280
		Amicon Ultra-15	30 x 121	10,000 *1	13,420	_	—
Plate rotor		741110011 01114 10	00 X 121	10,000	10,420		
		6 x micro-plate *5					
P1-21M		2 x deepwell-plate *5	86 (W) x 130 (D) x 62(H)	5,000	3,100	Equipped with rotor	_
Swinging bucke	et rotor						
owniging buckt	80 x 2mL		9.5~11 x 36~42	3,500	2,290	053-5820	055-4800
ST-720M	96 x RIA tube		10~12.3 x 65~95	3,500	2,190	053-5820	055-4730
	48 x 5/7mL narrow blood collecting tube *6		12~13.3 x 63~110	3,500	2,310	053-5820	055-4990
	24 x 8mL CPT cell preparation tube *7		13.5~15.8 x 81~130	3,500	2,310	053-5820	055-6900
	2	80 x 10mL	12.5~13.8 x 65~95	3,500	2,260	053-5820	055-4740
	48 x 10m	nL blood collecting tube/15mL	15~17.2 x 81~110	3,500	2,330	053-5820	055-4750
		L narrow blood collecting tube *6	12.5~13.7 x 62~110	3,500	2,300	053-5840	055-0260
	48 x 5/10mL narrow/thick blood collecting tube/15mL *6		12~17.2 x 72~110	3,500	2,300	053-5820	055-0880
		nL blood collecting tube/15mL	15~17.2 x 52~110	3,500	2,300	053-5840	_
	28	3 x 15mL Conical tube	17 x 121	3,500	2,300	053-5840	_
	32 x 15mL Conical tube		17 x 121	3,500	2,330	053-5820	055-4780
	8 x 50mL		27~36.4 x 85~110	3,500	2,330	053-5820	055-4760
	16	6 x 50mL Conical tube	30 x 117	3,500	2,330	053-5820	055-6070
		4 x 100mL	38~46.5 x 75~120	3,500	2,330	053-5820	055-4770
	4 x 175/200/225mL Conical tube *8		61 x 118/61 x 130/61 x 137	3,500	2,330	053-5820	055-4850
	4 x 250mL		60~61.8 x 100~130	3,500	2,380	053-5820	055-4850
	8x/12x/16x Self-standing sputum tube *9		Cap diam. 48/ 37/ 31	3,500	*9	053-5820	*9
	48 x 2mL		10.7 x 42	5,000	4,160	Equipped with rotor	K17008
	48 x 5mL RIA tube		12.5 x 55~75	5,000	4,160	Equipped with rotor	K17006
	48 x 7mL		12~12.5 x 100~112	5,000	4,160	Equipped with rotor	K17007
	28 x 7mL blood collecting tube		12.5~13 x 75~106	5,000	4,160	Equipped with rotor	K17027
			16.5 x 120.6	5,000	4,160	Equipped with rotor	K17019
		2 x 15mL Conical tube *10			4.470	K13130	_
ST-410M	12	2 x 15mL Conical tube *10	16.5 x 120.6	5,000	4,470		
ST-410M	12	2 x 15mL Conical tube *10 nL blood collecting tube/15mL	16.5 x 120.6 15.5~17 x 87~110	5,000	4,470	Equipped with rotor	K17015
ST-410M	12	2 x 15mL Conical tube *10 nL blood collecting tube/15mL 4 x 50mL	15.5~17 x 87~110 34 x 110	5,000 5,000	4,160 4,160		K17050
ST-410M	28 x 10m	2 x 15mL Conical tube *10 nL blood collecting tube/15mL 4 x 50mL 4 x 50mL	15.5~17 x 87~110 34 x 110 27~35.8 x 82~110	5,000 5,000 5,000	4,160 4,160 4,160	Equipped with rotor Equipped with rotor Equipped with rotor	K17050 055-5670
ST-410M	28 x 10m	2 x 15mL Conical tube *10 nL blood collecting tube/15mL 4 x 50mL 4 x 50mL x 50mL Conical tube	15.5~17 x 87~110 34 x 110 27~35.8 x 82~110 29.5 x 117	5,000 5,000 5,000 5,000	4,160 4,160 4,160 4,160	Equipped with rotor Equipped with rotor Equipped with rotor Equipped with rotor	K17050 055-5670 K17049
ST-410M	28 x 10m	2 x 15mL Conical tube *10 nL blood collecting tube/15mL 4 x 50mL 4 x 50mL	15.5~17 x 87~110 34 x 110 27~35.8 x 82~110	5,000 5,000 5,000	4,160 4,160 4,160	Equipped with rotor Equipped with rotor Equipped with rotor	K17050 055-5670

- Cooling down to 7'C or below is possible at this speed.

 This tube is Nalgene Nunc's plastic tube (Catalogue no. 3110-0120, 3117-0120).

 This tube is BD Falcon's tube (Catalogue no. 352006, 352018, 352059).

 This tube is Nalgene Nunc's plastic tube (catalogue no. 3110-0500, 3110-9500, 3112-0050, 3114-0050, 3117-9500, 3118-0050, 3119-0050). *1 *2 *3 *4 *5 *6 *7 *8
- Test the strength of the plates before centrifuging. The bottom and lower plate may be damaged.

 5/7mL narrow tube made by Sekisui(Insepack II), Termo(Venoject II), Nipro(Neotube) and Becton Dickinson (Vacutenar) can be used. Tube for flow cytometry can be used. The CPT cell preparation tube is made by Becton Dickinson (Vacutenar 8mL for CPT cell separation)

 175 and 225mL conical tubes are made by Falcon (Catalogue No.352076 and 352075 respectively) and requires a cushion (Catalogue No.352090).

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

 Several types of sputum tubes are acceptable. Contact our distributor.

- *10 Sealing cap cannot be accommodated on K17019 tube rack. Sealing cap (Code No.K17111) can be accommodated on K13130 bucket for 12 x 15mL conical tube.

Specifications

Model 5500

Maximum Speed ● 15,000rpm Maximum RCF ● 21,040xg

Maximum Capacity • 1,020mL

Control system • Micro-processor control (Brushless motor)

Speed, RCF, Time, g-sec, Acceleration & Deceleration, Temperature, 5 channel memories

Alarm display . Lid open, Imbalance, Over speed, Abnormally high temperature

Function for detecting an occurrence of electrical abnormality in motor, inverter,

lid interlock and speed sensor, temperature sensor

Acceleration / Deceleration . Three-level selectors; Rapid, Slow and Super Slow

Speed setting ● From 200 to 15,000rpm, 10rpm increments

Speed indication • Digital display, From 0 to 15,500rpm, 10rpm increments

RCF setting • From 10 to 20,630xg, 10xg increments (adjustable to actual rotation radius)

RCF indication • Digital display, From 0 to 22,030xg, 10xg increments (adjustable to actual rotation radius)

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

Timer setting and indication ● Digital display, with Hold and Memory Flashing

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 increment indication

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

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

Temperature setting and indication (chamber) • Digital display, 1°C increments setting and indication from -20°C to 40°C with Pre-cooling

Refrigerant • R134a

Power requirements • Single phase AC110V±10%, 15A Single phase AC115V±10%, 15A

Single phase AC220V±10%, 10A Single phase AC230V±10%, 10A

Rated voltage and Rated current • 110V 9.1A, 115V 8.7A, 220V 4.6A, 230V 4.4A

Power consumption and Heat output • 0.78kW 2.8MJ/h

Dimensions, weight ● 70(W) x 65(D) x 36(H)cm*1, 102kg

Certificates of Conformity • IEC 61010-2-020

CE Marking (AC220V and 230V Version)

(*1) Those of projections are not included.

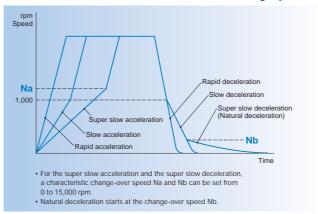
All specifications and external appearance subject to change without notice

On Model 5500 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 Follow instructions given in the relevant Instruction & Service Manual for operating centrifuges.

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

Acceleration/deceleration characteristics graph



Kubota has acquired Certification of ISO 9001 and ISO 13485.



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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