







Table Top Micro Refrigerated Centrifuge Model 3500

Compact Size with fast, Powerful-cooling and Quiet Operation

Features and Convenient functions

- Maximum speed of 15,000rpm
- Maximum RCF of 20,630xg
- Powerful cooling

Sample temperature of 4°C is maintained at the maximum Speed of 15,000rpm with rotor lid.

- Pre-cooling
- Temperature setting from -9°C to 40°C
- Rapid acceleration speed

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

20 sec to the maximum speed of 15,000rpm when the RA-2024 or RA-2724 rotor is used.

Choice of two levels of acceleration and deceleration curve

Rapid/slow acceleration and rapid/slow deceleration can be switched according to the types of sample and experimental conditions. The switch pattern is shown in the right.

- Compact size of 37(W) x 64(D) x 30(H) cm
- · Buzzer at the end of operation

5 different buzzer sounds allow recognition of the end of a centrifuge operation from across the room.

Program memories (3 channels) for repeated routine operation

A memory function is available for repetitive operation using same set values of operation, i.e. speed, time and temperature.

Memory flashing

Spin down time from 1 to 99 sec is memorized. Key-in of flashing button next time calls up the memorized spinning time.

Compliance with GMP requirements

Equipped with a tachometer port. Actual rotor speed is easy to check.

Actual rotation radius can be set and the correct RCF is realized.

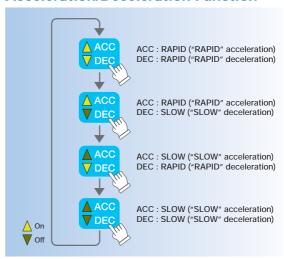
• The easy-to-follow digital display Please refer the operation panel.

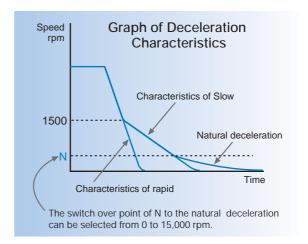
Safety pursued

- Safety is based upon IEC 61010-2-020
- The various alarm detector sensors secure operation.

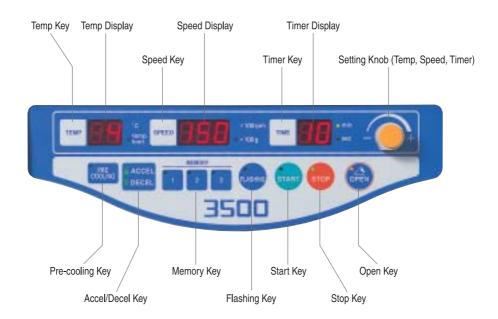


Acceleration/Deceleration Function





Operation Panel of Model 3500



Rotor Table for Model 3500

Rotor Name	Nominal Capacity	Tube size (mm) diam. x length	Maximum Speed *3 rpm	Maximum RCF ★3 xg	Adaptor Code No.
AT-2018M	18x2mL	9.5 ~ 11 × 36 ~ 42	15,000 (14,000)	20,630 (17,970)	
	18x0.5mL	7 ~ 7.9 × 25 ~ 34	15,000 (14,000)	18,110 (15,780)	055-7590
	18x0.4mL	5.4 ~ 6.1 × 26 ~ 48	15,000 (14,000)	20,120 (17,530)	055-7580
	18x0.2mL PCR	5.9 ~ 6.3 × 20 ~ 24	15,000 (14,000)	15,850 (13,810)	055-0500
RA-2024 *2	24x2mL	9.5 ~ 11 × 36 ~ 42	15,000 (14,500)	20,630 (19,270)	
	24x0.5mL	7 ~ 7.9 × 25 ~ 34	15,000 (14,500)	18,360 (17,160)	055-7590
	24x0.4mL	5.4 ~ 6.1 × 26 ~ 48	15,000 (14,500)	20,380 (19,040)	055-7580
	24x0.2mL PCR	5.9 ~ 6.3 × 20 ~ 24	15,000 (14,500)	16,100 (15,040)	055-0500
RA-2724 *1,2	24x2mL	9.5 ~ 11 × 36 ~ 42	15,000 (14,500)	20,630 (19,270)	
	12x0.5mL	7 ~ 7.9 × 25 ~ 34	15,000 (14,500)	16,850 (15,750)	
	24x0.4mL	5.4 ~ 6.1 × 26 ~ 48	15,000 (14,500)	20,380 (19,040)	055-7580
	12x0.2mL PCR	5.9 ~ 6.3 × 20 ~ 24	15,000 (14,500)	14,840 (13,870)	

- *1 Three tubes of 2mL, 0.5mL and 0.2mL PCR can be used without an adaptor.

 *2 Rotor lid is available as optional. With the rotor lid, the sample can be cooled down to 4°C at the maximum speed.

 *3 The figures in parentheses show the maximum speed or the maximum RCF at which the sample can be at 4°C without the rotor lid.







Rotor lid is optional.



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Note: The number of autoclave repetition is limited. Please refer to the instruction manual.

Specifications

Model 3500

Maximum Speed ● 15,000rpm

Maximum RCF • 20,630xg

Maximum Capacity • 48mL

Control system • Micro-processor control (Brushless motor)

Speed, RCF, Time, Temperature, 3 channel memories

Alarm display • Lid open, Imbalance, Over speed, Abnormal High Temperature

Function for detecting an occurrence of electrical abnormality in speed sensor, Inverter, lid lock, motor, temperature sensor

Acceleration / Deceleration • Rapid, Slow, 4 ways of switching with natural deceleration (commencement speed of natural deceleration changable)

Speed setting • From 300 to 15,000rpm in 100rpm increments

Speed indication ● Digital display, From 0 to 15,300rpm in 100rpm increments

RCF setting • From 100 to 20,630xg in 100xg increments (Actual rotation radius can be set.)

RCF indication • Digital display, From 0 to 21,400xg in 100xg increments (Actual rotation radius can be set.)

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

from 1 sec to 99 sec, in 1 sec increment setting / from 0 sec to 99 sec, in 1 sec increment indication from 1 min to 99 min, in 1 min increment setting / from 0 min to 99 min, in 1 min increment indication

Setting the sound that informs the end of the operation • 5 kinds + Sound none

Temperature setting and indication • Digital display in 1°C increments, with pre-cooling

from -9°C to 40°C setting / from -9°C to 43°C indication

Refrigerant • R-134a

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

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

Rated voltage and Rated current • 115V 5.7A, 220V 3.0A, 230V 2.9A

Power consumption and Heat output • 550W 2MJ/h

Dimensions, weight ● 37(W) x 64(D) x 30(H)cm*1, 115V 42kg, 220/230V 45kg

Test standard ● Manufactured and tested in accordance with IEC 61010-2-020 Class 1

(*1) Those of projections are not included.

All specifications and external appearance subject to change without notice

- * On Model 3500 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 vour neighbourhood.

KUBOTA CORPORATION

http://www.centrifuge.jp

29-9 Hongo 3-chome, Bunkyo-ku, Tokyo 113-0033, Japan Tel +81 3 3815 1331 Fax +81 3 3814 2574

E-mail: f-trade@kubotacorp.co.jp

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