Specifications

Model	AX-521	AX-511	AX-501		
Maximum Speed	10,000rpm				
Maximum RCF	11,740G				
Maximum Capacity	2ml x 96Deep-well plate x 8 1,000ml (250ml x 4)				
Control System	Micro	oprocessor control (feedback sy	vstem)		
Drive Motor		Induction motor			
Drive System	Flex-Spin drive syster	n (Direct drive with an automat	ic alignment function)		
Data Entry	Jog D	ial equipped with an <enter></enter>	button		
Temperature Setting Range	Fr	rom -9℃ to +35℃ (1℃ increme	nt)		
Speed Setting Range	100	to 10,000rpm (100rpm increm	ents)		
RCF Setting Range	10 to 11,740G (10G increments for the range less than 300G, 100G increments for the range over 300G)				
Time Setting Range	From 10 sec to 50 sec, in 10 sec increments, from 1 min to 99 min, in 1 min increments or <f> for free</f>				
Safety Devices	 Imbalance detector • Lid interlock • Lid open/close detector Abnormal speed detector • Over-current circuit breaker Rotor identification system • Motor over-current detector Abnormally high or low chamber temperature detector 				
Additional Functions	 Three-step acceleration characteristics selection • Three memory function Three-step deceleration characteristics selection • BART Code selection FLASH (momentary spin) function • Memory function for last run parameters • Power saving (ECO) mode 				
Refrigerant	HFC R404A (270g)	HFC R404A (260g)	HFC R404A (250g)		
Rated Current	120V : 12A 220/230/240V : 6A 120V : 10A 220/230/240V : 5A				
Power Requirements	1-Phase 50/60Hz AC120V 15A, 1-Phase 50/60Hz AC220/230/240V 8A				
Power Consumption (Heat output)	970W (834kcal/h) 960W (826kcal/h)		760W (654kcal/h)		
Breaker	Rated breaking current 120V : 15A, 220/230/240V : 7.5A				
Protection Against Electric Shock	Class I				
Dimensions (except protruding portion)	540W x 597D x 858H mm (table height; 750mm)	510W x 567D x 858H mm (table height; 750mm)	462W x 540D x 858H mm (table height; 750mm)		
Net Weight	111kg (120V) 116kg (220/230/240V)	107kg (120V) 112kg (220/230/240V)	99kg (120V) 104kg (220/230/240V)		
Environmental Requirements	Ambient temperature range:10 to 35°C, Relative humidity:30 to 85%, Atmospheric pressure:700 to 1,060hPa, Intended exclusively for use indoors, Overvoltage category: II, Pollution degree: 2				
Accessories Included	• Operator's manual x1 • Warranty Card x1 • BART Cord table x1 • Clear storage case for operator's manual x1 • Attaching screw for clear storage case x1 • Power cord x1 • Spanner x1 • Level gauge x1 • Rotor locking knob x1 • Drain plug x1				

FOIVIY

Low speed refrigerated centrifuge

ECO mode EC



TOMY AX-Series new model is equipped with the power-saving [ECO] mode, reducing standby power consumption.

An overall increase in cooling efficiency allows for drastic reduction in energy usage during normal operation.



Measurement conditions: Set to 4°C at an ambient temperature of 25°C while centrifugation is stopped. (Rotors in use: AX-521/AX-321: TS-37C+3750-TC06P) The values shown above are average values obtained by measuring the units.

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TOMY SEIKO CO., LTD.

Manufacturer:

TOMY KOGYO CO., LTD.

3-14-17 Tagara, Nerima-ku, Tokyo 179-0073, Japan

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www.digital-biology.co.jp

AX-Series Flexible & high performance



- Various Tubes & Micro/Deep-well Plates Available
- (From Microtubes to 250ml Bottles, Blood Collection Tubes, etc.)
- Easy Rotor Mount with One-push Rotor Locking Knob
- Eye Balance Sample Load Available by Flex-spin-drive System
- Each Three (3) Acceleration and Deceleration Steps with Natural Deceleration
- Easy to See and Operate Control Panel with Jog Dial and Dual Color LED Display
- Compatible Rotor Line-up with TOMY CAX/NIX/LCX-Series Centrifuges



Popular user-friendly Jog Dial with an <ENTER> button enable setting to changed more quickly and surely.

Dual color LED display allows users to monitor the operation status just by looking the display; red indicates that the rotor is spinning, green indicates that the rotor is not spinning.





Centrifuges accept a wide variety of rotors



Fixed Angle Rotors

	Rotor Type & Model	Max. Speed (rpm)	Max. RCF (G)	Rotor Capacity ml (bottom shape) × number (R) : Round, (C) : Conical	Note	
	CA-1	10,000	7,940	2×18	Microtube	
Fixed Angle	CA-4HS HS *2	10.000	8,500	50 (R)×4	NAL	
		10,000	7,720	14 (R)×4	FLC	
	CA-5	10,000	9,390	2×24		
	CA-6	10,000	9,390	2×18 (Outer line)	Microtube	
			8,270	2×18 (Inner line)		
	CA-8 *2	10,000	9,390	50 (C)×4	Conical tube	
	CR-6 *2		9,060	15 (C)×4	Conical tube	
	CA-10	10,000	9,730	2×24	Microtube	
Ro	CA-12	10,000	9,170	5 (C)×12	TOM *3	
Rotors	CA-14HS HS *2	*2 10,000	9,390	50 (C) × 4	Conical tube	
°.		10,000	7,490	5 (R)×4	FLC *4	
	CA-15	10,000	8,500 6,600 5,810	2×18 (Outer line) 0.5×12 (Inner line) 0.2×12 (Middle line)	Microtube	
	CA-16	10,000	<u>11,740</u> 11,180	50 (C)×8 15 (C)×8	Conical tube *5	

• The above specifications show the maximum value of speed, RCF(G) and sample capacity. These values may change according to the combination of rotor, bucket, adapter and tubes.

Swina Out Rotors

tor Type & Model	Bucket	Tube Rack	Max. Spe AX-521/511	ed (rpm) AX-501	Max. R	RCF (G) AX-501	Rotor Capacity ml (bottom shape) × number	Note	
							(F) : Flat, (R) : Round, (C) : Conical		
TS-4C	S4096-02	_	1,8	300		10		⁵ Plate size up to 128.5L×86D×32H	
75.66	6150-01	_	5,0	000		860	50 (R)×4, 15 (R)×4 *		
TS-6C	(015.02		20	200		890	50 (C)×4 *1	connear tabe	
	6015-02 7015-06	—	3,800			230 320	15 (R)(C)×8 15 (R)×24, 15 (C)×16 *1	Glass, Conical tube	
	7215-06		3,600 3,600			430	15 (R)(C)×24		
	7015-08			500		190	15 (R)×32, 15 (C)×16 *1	Glass, Conical tube	
	7115-08	_	3,500	_	2,380	_	15 (R)(C)×32		
	7115 00		5,500		2,300	_	50 (R)×4	Glass	
	71450454				2,160	<u>-</u>	50 (C)×4 *1		
	7M5015-1 *10	—	3,500	-	2,340		15 (R)×16 *		
TS-7C					2,370		15 (C)×16	Conical tube	
	7050-01	_	4 (000		810	50 (R)(C)×4, 15 (R)×4 *7 *1		
	7150-01	_		000		570	50 (R)(C)×4, 15 (R)×4 *7 *1		
	7050-02	_		500		150	50 (R)(C)×8, 15 (R)×8 *7 *1		
		0705-10P		100		570		Veno-Ject II tube 5ml (TER)	
	B407	0705-FA10P		100		570	5 (R)×40	FLC	
	SC-2	_	· · · · ·	500		20	8×4	Floating cell collection bucke	
		3305-07P	4,200	4,100	2,900	2,760	5 (R)×28	Veno-Ject II tube 5ml (TER)	
		3307-07P	4,1	100	2,9	990	7 (R)×28	Veno-Ject II tube 7ml (TER)	
		3314-04P	4,0	000	2,9	990	14 (R)×16	FLC	
		3315-G07P	4,800	4,100	4,150	3,030	15 (R)×28	Glass, PAX gene blood collection t	
	B433 *11	3315-TC04P	4,800	4,100	4,300	3,140	15 (C)×16	Control tube	
	D433 *11	3350-TC01P	4,800	4,100	4,300	3,140	50 (C)×4	- Conical tube	
TS-33C		3350-G01P	4,800	4,100	4,150	3,030	50 (R)×4	Glass	
			4,800	4,100	4,350	3,180	250 (F)×4	NAL	
			4,800	4,100	4,350	3,180	225 (C)×4	FLC *12	
		—	4,800	4,100	4,350	3,180	175 (C)×4	FLC *12	
	Bucket cap kit B433	8 HS *11	-	-	-	-	_	Sealed cap for Bucket B433 CAP433-1 with gasket	
	M0415-04		10	000		160	2×16		
						940	1.5×16		
CS-1	M0406-05	-	10,	000		160	0.5×20	Microtube	
	M0404-09	_	10.	000		330	0.4×36		
<u>}</u>					7,380		0.25×36		
					2,070		250 (F)×4	– NAL	
	3625C-01P 3610C-G02P 3650-G05P 3650_TC05P	3625C-01P	3,200		2,040		250 (R)×4		
					2,070		225 (C)×4 175 (C)×4	- FLC *12	
		26100 0020	3,200	_	2,070	_	100 (R)×8	Glass	
			3,200	_	2,030	_	50 (R)×20	Glass	
		3650-TC05P	3,200	_	2,100	_	50 (C)×20, 15 (C)×8 *14		
		3615-G16P	3,200	_	2,080	_	15 (R)×64	Glass	
		3615-TC14P	3,200	_	2,100	_	15 (C)×56	Conical tube	
TS-37C	B437	3614C-18P	3,200	_	2,020	_	14 (R)×72	FLC	
(for AX-521)	ior AX-521)	3606C-35P	3,200	-	2,100	-	6 (R)×140	EIK	
		3605C-48P	3,200	_	2,100	_	5 (R)×192, 4 (R)×192	FLC or SIO	
		3602C-36P	3,200	-	1,920	-	2 (C)×144, 1.5 (C)×144	Microtube	
								Plate size up to 128.5L×86D×90	
		AS36C-96D	3,200	-	1,920	-	Microplate×16 *	Plate size up to 128.5L×86D×58	
		3750-G06P	3,200	-	2,030	-	50 (R)×24	Glass	
		3750-TC06P *2	3,200	-	2,100	-	50 (R)×24, 15 (C)×8	Conical tube	
		3715-G24P	3,200	-	2,080	-	15 (R)×96	Glass	
		3715-TC16P	3,200	-	2,100	-	15 (C)×64	Conical tube	
		3850-04P	3,500	_	2,380		50 (C)×16	Conical tube	
		3850-N04P	3,500	_	2,380		50 (R) × 16	NAL	
		38M-TC0204P * 15		_	2,380		50 (C)×8 or 15 (C)×16	Conical tube	
	B438	3850-02P	3,500	-	2,380		50 (R)×8	Glass	
		3815-10P	3,500	_	2,380		15 (C)×40	Conical tube	
		<u>3815-16P</u>	3,500	-	2,370		15 (R) × 64	Glass	
		3810M-14P	3,500		2,380		5~10 (R)×56_	Blood collection tube	
		3806-EK20P	3,500		2,330		<u>6 (R) × 80</u>	EIK	
		3810-N20P	3,500	-	2,270		10 (R)×80	NAL	
TS-38C		3805-FA16P	3,500		2,080		$5 (R) \times 64, 4 (R) \times 64$	FLC or SIO	
TS-38C (for AX-521/511)		3802-EP24P	3,500	-	1,780	-	2 (C)×96, 1.5 (C)×96	Microtube	
TS-38C (for AX-521/511)					3,650		250 (F) × 4	NAL	
					3,590		250 (R)×4		
	B438-29	_	4,200		3,650		225 (C)×4	FLC	
	B438-29	-	4,200						
		-			3,650	-	175 (C)×4		
	B438-96	-	4,200		3,650 3,100	-	Microplate×4 *		
	B438-96 B438-1507BH HS *16				3,650		Microplate×4 *1 15 (C)×28	Filate size up to 128.5L×86D×33H	
	B438-96 B438-1507BH FS *16 B438-5002BH FS		4,200		3,650 3,100	-	Microplate×4 */ 15 (C)×28 50 (C)×8	Plate size up to 128.5L×86D×33H	
	B438-96 B438-1507BH HS *16	-	4,200 4,000		3,650 3,100 3,310	-		Filate size up to 128.5L×86D×33H	

Tubes other than stated above are also available. As for details, please contact your local dealer.

Manufacturer Abbreviation TOM: TOMY SEIKO CO., LTD. FLC: Falcon/CORNING INTERNATIONAL CORP. COR: CORNING INTERNATIONAL CORP. EIK: EIKEN CHEMICAL CO., LTD. NAL: NALGENE/Thermo Fisher Scientific K.K. SIO: SHIONOGI & CO., LTD. TER: TERUMO CORPORATION

*1: Values indicate those of the rotor being mounted in the AX-511/521. *2: Do not load different type of tubes at the same time. *3: TOMY 5ml conical tube, PT0050-11. Please contact us for Eppendorf 5ml tube *4 : Falcon 5ml FACS tubes. *5 : For use with 15ml conical tubes, an optional Adapter CA1500-01 is required. *6 : Confirm that the plate can withstand centrifugal force before use. *7: For 15ml tubes, an adapter A1500-04 is required. *8: For conical tubes, an adapter IW9330-050 is required. *9: Use only four holes in the center of the bucket (15ml x 4) for use with conical tubes *10: Can be loaded 50ml tube and 15ml tube mixed together. *11: An optional bucket cap kit B433 is available for use as a sealed bucket. *12: An optional conical Tube Adapter (Falcon Tube Cushion, Cat. No.352090) is required. *13: Falcon 225ml tube can not be used Bucket cap kit B433. *14: Can be loaded 50ml × 4 and 15ml × 2 mixed together *15: Can be loaded up to 50ml ×4 and 15ml × 8 tubes mixed together. *16: Sealed bucket *17: 2 deep-well plates (up to 128.5L×86D×80Hmm) are available with bucket cover.

S This bucket, which has been tested and certified by the Health Protection Agency (HPA, UK) to be compliant with the International Standard (Annex AA of the IEC 61010-2-020), meets requirements for biohazard safety. Its adopted a hermetically sealed structure equivalent to HS bucket or rotor designed and tested in accordance with the International Standard (Annex AA of the IEC 61010-2-020) to offer excellent sealing performance

