Specifications

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 (2	250ml x 4)			
Control System	Microprocessor control (feedback system)					
Drive Motor		Induction motor				
Drive System	Flex-Spin drive systen	n (Direct drive with an automat	ic alignment function)			
Data Entry	Jog Dial equipped with an <enter> button From -9°C to +35°C (1°C increment)</enter>					
Temperature Setting Range	Jog Dial equipped with an <enter> button From -9°C to +35°C (1°C increment) 100 to 10,000rpm (100rpm increments) 10 to 11,740G (10G increments for the range less than 300G, 100G increments for the range over 300G) From 10 sec to 50 sec, in 10 sec increments, from 1 min to 99 min, in 1 min increments or <f> for free Imbalance detector • Lid interlock • Lid open/close detector • Abnormal speed detector • Over-current circuit breaker • Rotor identification system • Motor over-current detector</f></enter>					
Speed Setting Range	Flex-Spin drive system (Direct drive with an automatic alignment function) Jog Dial equipped with an <enter> button From -9°C to +35°C (1°C increment) 100 to 10,000rpm (100rpm increments) 10 to 11,740G (10G increments for the range less than 300G, 100G increments for the range over 300G) From 10 sec to 50 sec, in 10 sec increments, from 1 min to 99 min, in 1 min increments or <f> for free 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 • 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</f></enter>					
RCF Setting Range						
Time Setting Range						
Safety Devices	Abnormal sRotor identi	speed detector • Over-current confication system • Motor over-cu	ircuit breaker rrent detector			
Additional Functions	 Three-step deceleration characteristics selection FLASH (momentary spin) function Memory function for last run parameters 					
Refrigerant	HFC R404A (270g) HFC R404A (260g) HFC R404A (250g)					
Rated Current	120V : 12A 220/230/240V : 6A		: 10A /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 break	ring current 120V : 15A, 220/230	0/240V : 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	Atm	ure range:10 to 35℃, Relative hospheric pressure:700 to 1,060 use indoors, Overvoltage categ	hPa,			
Accessories Included	 Clear storage case for oper 	nual x1 • Warranty Card x1 • BA rator's manual x1 • Attaching sc x1 • Level gauge x1 • Rotor lock	rew for clear storage case x1			

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Low speed refrigerated centrifuge







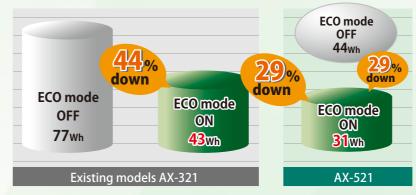


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ECO mode

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.

AX-Series

Flexible & high performance

3 Acceleration Steps

- High Speed Fixed Angle Rotor Available (MAX. 10,000 rpm)
- 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



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.

Speed can be set





3 Deceleration Steps

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

Centrifuges accept a wide variety of rotors







10,000rpm: 5,810G

Outer line 2ml×18 10,000rpm: 8,500G Inner line 0.5ml $\times 12$ 10,000rpm : 6,600G Middle line 0.2ml×12













Fixed Angle Rotors

Rotor Type & Model Max		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
	CA-4HS HS *2	10.000	8,500	50 (R)×4	NAL
	CA-4FI3 #3 *2	10,000	7,720	14 (R)×4	FLC
	CA-5	10,000	9,390	2×24	
	CA C	10.000	9,390	2×18 (Outer line)	Microtube
Ξ.	CA-6	10,000	8,270	2×18 (Inner line)	
Fixed	CA-8 *2	10,000	9,390	50 (C)×4	Conical tube
Σ	CA-6 *2	10,000	9,060	15 (C)×4	Cornical tube
Angle	CA-10	10,000	9,730	2×24	Microtube
R	CA-12	10,000	9,170	5 (C)×12	TOM *3
Rotors	CA-14HS HS *2	10.000	9,390	50 (C)×4	Conical tube
S	CA 1415 HS	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>	<u>50 (C)×8</u> 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.

Swing Out Rotors

otor Type & Model	Bucket	Tube Rack	Max. Speed (rpm)		Max. RCF (G)		Rotor Capacity ml (bottom shape) × number	Note
			AX-521/511	AX-501	AX-521/511		(F):Flat, (R):Round, (C):Conical	
TS-4C	S4096-02	_	1,800		510		Microplate×4 *6	Plate size up to 128.5L×86D×32F
	7015-06	_		500		320	15 (R)×24, 15 (C)×16 *9	9
	7215-06	_		500		430	15 (R)(C)×24	Glass, Conical tube
	7015-08	_		500		190	15 (R)×32, 15 (C)×16 *9	9
	7115-08	_	3,500	_	2,380		15 (R)(C)×32	
					2,150	-	50 (R)×4	Glass
	7M5015-1 *10	_	3,500	-	2,160	-	50 (C)×4 *8	
TS-7C					2,340	-	15 (R)×16 **	
		_			2,370		15 (C)×16	Conical tube
	7050-01		4,000		2,810 4,670		50 (R)(C)×4, 15 (R)×4 *7 *8	
	7150-01	_		000	 		50 (R)(C)×4, 15 (R)×4 *7 *8	-
	7050-02	_		500		150	50 (R)(C)×8, 15 (R)×8 *7 *8	
	B407	0705-10P		100	.	570	5 (R)×40	Veno-Ject II tube 5ml (TER)
		0705-FA10P		100	 	570	0)/4	FLC :
	SC-2	2205.070		4 100		20	8×4	Floating cell collection bucket
		3305-07P	4,200	4,100	2,900	2,760	5 (R)×28	Veno-Ject II tube 5ml (TER)
		3307-07P	+	100		990	7 (R)×28	Veno-Ject II tube 7ml (TER)
		3314-04P		000		990	14 (R) × 16	FLC
		3315-G07P	4,800	4,100	4,150	3,030	15 (R) × 28	Glass, PAX gene blood collection tu
	B433 *11	3315-TC04P	4,800	4,100	4,300	3,140	15 (C)×16	- Conical tube
TS-33C		3350-TC01P	4,800	4,100	4,300	3,140	50 (C)×4	
13-330		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	*11	_	_	-	_	_	Sealed cap for Bucket B433 CAP433-1 with gasket
	M0415-04	_	10	000	8,	160	2×16	
	1010413-04		10,	000	7,9	940	1.5×16	
CS-1	M0406-05	_	10,	000	7,	160	0.5×20	Microtube
	M0404 00	_	10	000		330	0.4×36	
۸ 📗	M0404-09	_	10,	000	7,3	380	0.25×36	
Swing - Out Rotors	36 36 36 33 36				2,070	-	250 (F)×4	NAL
2		3625C-01P	2 200	[2,040		250 (R)×4]
		3023C-01F	3,200	[2,070		225 (C)×4	- FLC *12
-					2,070		175 (C)×4	FEC *12
<u> </u>		3610C-G02P	3,200	_	2,050	_	100 (R)×8	Glass
^		3650-G05P	3,200	_	2,030	_	50 (R)×20	Glass
		3650-TC05P	3,200	_	2,100	_	50 (C)×20, 15 (C)×8 *14	Conical tube
		3615-G16P	3,200	-	2,080	_	15 (R)×64	Glass
TC 27C		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)		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
		AS36C-96D	3,200	_	1,920	_	Deep-well plate×8 *6	Plate size up to 128.5L \times 86D \times 90Hn
		N330C 30D	3,200		1,920		Microplate×16 *6	Plate size up to 128.5L \times 86D \times 58Hn
		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	3,500	L -	2,380		50 (C)×8 or 15 (C)×16	Conical tube
		3850-02P	3,500_	-	2,380	-	50 (R)×8	Glass
		3815-10P	3,500	-	2,380	-	15 (C)×40	Conical tube
		3815-16P	3,500	L -	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	-	6 (R)×80	<u>EIK</u>
TC 20C		3810-N20P	3,500	L -	2,270		10 (R)×80	NAL
TS-38C (for AX-521/511)		3805-FA16P	3,500	-	2,080	-	5 (R)×64, 4 (R)×64	FLC or SIO
(IOI AA-321/311)	3802-EP24P B438-29 —	3802-EP24P	3,500		1,780		2 (C)×96, 1.5 (C)×96	Microtube
				3,650	-	250 (F)×4	NAL	
		_	4,200	_	3,590	-	250 (R)×4	
			7,200		3,650	-	225 (C)×4	- FLC >
					3,650		175 (C)×4	
	B438-96	_	4,200	_	3,100	_		Plate size up to 128.5L \times 86D \times 33Hr
	B438-1507BH HS *16	_	4,000		3,310		15 (C)×28	
	B438-5002BH HS	_	4,000	_	3,310	_	50 (C)×8	Conical tube
	*2 *16		4,000		3,310		15 (C)×8	
	Bucket, Adapter an	d Bucket Cover	4,400	3,600	3,010	2,010	L	Plate size up to 128.5L \times 86D \times 90Hmm
TS-41C	are included.					2.010	Microplate×8 *6	Plate size up to 128.5L×86D×58Hn

- *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 Expending 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.
- IKS 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 It adopted a hermetically sealed structure equivalent to Its 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.

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