

## Maximized Throughput Clinical Centrifuges



PRP and PPP



Cell collection



Vacutainers with fixed angle rotor



Vacutainers with swing-out rotor



Microplate spin down



Specimen collection

### Technical Specifications

	T05R	T04B	T04
Max. RPM	Fixed angle	5,000 rpm	4,000 rpm
	Swing-out	5,000 rpm	4,000 rpm
Max. RCF	Fixed angle	3,983 x g	2,773 x g
	Swing-out	4,218 x g	2,774 x g
Max. capacity	Fixed angle	10 x 50 mL / conical 50 mL, 24 x 15 mL	
	Swing-out	4 x 100 mL, 4 x 2 x conical 50 mL, 4 x 8 vacutainer tubes, 2 MTPs, 2 DWP	
ACC/DEC ramps	9/10 ramps		
Acc. time to max. speed	-	-	≤20 sec
Dec. time from max. speed	-	-	≤20 sec
Temp range (°C)	-10°C to 40°C		
Time control	Timed < 100 hr, Pulse, or Continuous	Timed < 10 hr, Pulse, or Continuous	Timed < 100 min, or Continuous
Time counting	Selectable, at set speed or from starting		
Program memory	100	100	10
Imbalance cutoff / tracking	Yes	Yes	Yes
Rotor identification	Automatic	-	-
Dimension (W x D x H, mm)	584 x 551 x 317	375 x 507 x 264.5	296 x 408 x 211
Height with open lid (incl. a wheel)	705	658	503
Weight without rotor	65 kg	25.7 kg	15 kg
Power requirement	900 VA	340 VA	140 VA
Power input (V, Hz)	210V~240V, 50/60Hz (110V optional)		

### Ordering Information

Main Body	
T05R	Low speed refrigerated centrifuge without rotor
T04B	Low speed general centrifuge without rotor
T04	Low speed general centrifuge with rotor AO-15/10-12

Rotors	
S-100-4	Four-wing swing 100 mL rotor of T05R holding bucket, B15-8-100, Bd50c-100, BBd15cb-100, and BB100b-100
SO-100-4	Four-wing swing 100 mL rotor of T04B holding bucket, B15-8-100, Bd50c-100, BBd15cb-100, and BB100b-100
S-50-4	Four-wing swing 50 mL rotor of T05R holding bucket, B50-50, B50c-50, and Bd15c-15
SO-50-4	Four-wing swing 50 mL rotor of T04B holding bucket, B50-50, B50c-50, and Bd15c-15
S-15-6	Six-wing swing 15 mL rotor of T05R holding bucket Bd15-15
SO-15-6	Six-wing swing 15 mL rotor of T04B holding bucket Bd15-15
S-mw-2	Two-wing swing rotor of T05R for holding microplates
SO-mw-2	Two-wing swing rotor of T04B for holding microplates
A-50-10	An angle rotor of T05R including 10 of 50 mL sleeve
A-50c-10	An angle rotor of T05R including 10 of 50 mL conical sleeve
AO-50-10	An angle rotor of T04B including 10 of 50 mL sleeve
AO-50c-10	An angle rotor of T04B including 10 of 50 mL conical sleeve
A-15-24	An angle rotor of T05R including 24 of 15 mL sleeve
AO-15-24	An angle rotor of T04B including 24 of 15 mL sleeve

Buckets	
BB100b-100	100 mL bucket of swing rotors, S/SO-100-4
Bd50c-100	2 x 50 mL conical bucket of swing rotor, S/SO-100-4
BBd15cb-100	2 x 15 mL conical bucket of swing rotor, S/SO-100-4
B15-8-100	8 x 15 mL vacutainer of 15 mL bucket of swing rotor, S/SO-100-4
B50-50	50 mL bucket of swing rotor, S/SO-50-4
B50c-50	50 mL conical bucket of swing rotor, S/SO-50-4
Bd15c-50	2 x 15 mL conical bucket of swing rotor, S/SO-50-4
Bd15-15	2 x 15 mL bucket of swing rotor, S/SO-15-6
B50-SS	50 mL sleeve of angle rotor A/AO-50-10 for holding 50 mL round tubes/conical tubes
B50c-SS	50 mL sleeve of angle rotor A/AO-50-10 for holding 50 mL round tubes/conical tubes
B15	15 mL sleeve of angle rotor A/AO-15-24 for holding 15 mL round tubes

Adaptors	
TR100(100)	100 mL round tube adaptor of Bucket BB100b-100
TR85(100)	85 mL round tube adaptor of Bucket BB100b-100
TR50(100)	50 mL round tube adaptor of Bucket BB100b-100
TR50c(100)	50 mL conical tube adaptor of bucket BB100b-100
TR50sc(100)	50 mL flat tube adaptor of bucket BB100b-100
TR30(100)	30 mL round tube adaptor of bucket BB100b-100
TR25c(100)	25 mL conical tube adaptor of bucket BB100b-100
TR15c(100)	15 mL conical adaptor of bucket BB100b-100
TR15-3(100)	3 x 15 mL multi-tube rack of bucket BB100b-100, not applicable with bioseal cap
TR15c-3(100)	3 x 15 mL conical multi-tube rack of bucket BB100b-100, not applicable with bioseal cap
TR10-5(100)	5 x 10 mL multi-tube rack of bucket BB100b-100
TR7-5(100)	5 x 7 mL multi-tube rack of bucket BB100b-100
TR5c-3(100)	3 x 5 mL conical tube rack of bucket BB100b-100
TR2-6(100)	6 x 1.5/2.0 mL microtube rack of bucket BB100b-100
TR50c(50f)	50 mL conical tube adaptor of rotor A-50-10, AO-50-10 and bucket B50-50
TR30(50f)	30 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50-50
TR25c(50f)	25 mL conical tube adaptor of rotor A-50-10, AO-50-10 and bucket B50-50
TR15(50f)	15 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50-50
TR14(50f)	14 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50-50
TR50(50c)	50 mL round tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c-100, B50c-50
TR50cs(50c)	50 mL flat tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c-100, B50c-50
TR30(50c)	30 mL round tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c-100, B50c-50
TR25c(50c)	25 mL conical tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c-100, B50c-50
TR15c(50c)	15 mL conical adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c-100, B50c-50
TR14(15f)	14 mL round tube adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8-100
TR5(15f)	5 mL adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8-100, Bd15-15
TR5c(15f)	5 mL conical tube adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8-100
TR3(15f)	3 mL adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8-100, Bd15-15
TR14(15c)	14 mL adaptor of bucket BBd15cb-100, Bd15c-50
TR5c(15c)	5 mL conical adaptor of bucket BBd15cb-100, Bd15c-50

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## T05R / T04B

Refrigerated Centrifuge / Air-ventilated Centrifuge



- Usage of 10 x 50 mL conical tubes for fixed angle rotors, 8 x 50 mL conical tubes for swing-out rotors
- Spin up 32 tubes of all volumes of vacutainer at one time
- Various rotors, buckets and adaptors including 2 microplate
- Outstanding sensitive sample separations with 9/10 acceleration and deceleration stages
- Accurate experiment with "At set speed" time counting
- Easy to set with numeric key pad
- 100 program memory
- Very quiet and static operation
- Easy-to-clean stainless steel chamber and UV resistance exterior
- Outstanding safety and durability with two layers of steel
- Fast cool function (R model only)

### Intuitive Control Pad



### Rotors and Buckets for T05R / T04B

Fixed Angle Rotor	A-50-10 for T05R	AO-50-10 for T04B	A-50c-10 for T05R	AO-50c-10 for T04B	A-15-24 for T05R	AO-15-24 for T04B
Max. Capacity	10 x 50 mL		10 x conical 50 mL		24 x 15 mL	
Max. Speed / g -force	5,000 / 3,983 xg	4,000 / 2,549 xg	5,000 / 3,913 xg	4,000 / 2,508 xg	4,500 / 3,509 xg	4,000 / 2,773 xg

Swing-Out Rotor Rotor Frame + Bucket	S-100-4 for T05R	SO-100-4 for T04B	BB100b-100		Bd50c-100		BBd15cb-100		B15-8-100	
			T05R	T04B	T05R	T04B	T05R	T04B	T05R	T04B
Max. Capacity	4 x 100 mL		100 mL		2 x conical 50 mL		2 x conical 15 mL		8 x 15 mL	
Max. Speed / g -force	4,500 rpm	4,000 rpm	3,511 xg	2,774 xg	3,511 xg	2,774 xg	3,511 xg	2,774 xg	3,441 xg	2,719 xg

Swing-Out Rotor Rotor Frame + Bucket	S-50-4 for T05R	SO-50-4 for T04B	B50-50		B50c-50		Bd15c-50	
			T05R	T04B	T05R	T04B	T05R	T04B
Max. Capacity	4 x 50 mL		50 mL		conical 50 mL		2 x conical 15 mL	
Max. Speed / g -force	5,000 rpm	4,000 rpm	4,218 xg	2,700 xg	4,218 xg	2,700 xg	4,218 xg	2,700 xg

Swing-Out Rotor Rotor Frame + Bucket	S-15-6 for T05R	SO-15-6 for T04B	Bd15-15		Plate Holder	S-mw-2 for T05R	SO-mw-2 for T04B
			T05R	T04B			
Max. Capacity	6 x 15 mL		2 x 15 mL			2 MTPs, 2 DWPs	
Max. Speed / g -force	4,400 rpm	4,000 rpm	3,312 xg	2,737 xg		4,000 rpm / 2,000 xg	



## T04

Compact Clinical Centrifuge



- Spin up to 12 tubes of all volumes of vacutainer or 6 x 15 mL conical tubes at one time
- Supplied with 12-hole rotor and sleeves
- Furnished with unique air flow design and anti-vibration structure to minimize heat and noise generation
- Easy-to-clean stainless steel chamber and UV resistance exterior
- Outstanding safety and durability with two layers of steel

### Rotor for T04

Fixed Angle Rotor	AO-15/10-12
Max. Capacity	12 x 10 mL or 6 x 15 mL
Max. Speed / g -force	4,000 / 2,075 xg