



HANIL SCIENTIFIC LOW-SPEED CENTRIFUGES

Clinical centrifuges with maximized throughput

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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 x 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
- Store tools and the balance in the side pocket (R model only)
- 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	B100bs		Bd50c		Bd15cb		B15-8	
			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	B50f		B50c		Bd15c	
			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		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 x 2 MTP, 2 x DWP	
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

Maximized Throughput Clinical Centrifuges



Technical Specifications

		T05R	T04B	T04
Max. RPM	Fixed angle	5,000 rpm	4,000 rpm	4,000 rpm
	Swing-out	5,000 rpm	4,000 rpm	-
Max. RCF	Fixed angle	3,983 x g	2,773 x g	2,075 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		12 x 15 or 10 mL (6 x c15 mL)
	Swing-out	4 x 100 mL, 4 x 2 x conical 50 mL, 4 x 8 vacutainer tubes, 2 x 2 MTPs		-
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 < 10 hr, Pulse, or Continuous		Timed < 100 min, or Continuous
Time counting		Selectable, at set speed or from starting		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, Bd50c, Bd15cb, and B100bs
SO-100-4	Four-wing swing 100 mL rotor of T04B holding bucket, B15-8, Bd50c, Bd15cb, and B100bs
S-50-4	Four-wing swing 50 mL rotor of T05R holding bucket, B50f, B50c, and Bd15c
SO-50-4	Four-wing swing 50 mL rotor of T04B holding bucket, B50f, B50c, and Bd15c
S-15-6	Six-wing swing 15 mL rotor of T05R holding bucket Bd15
SO-15-6	Six-wing swing 15 mL rotor of T04B holding bucket Bd15
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	
B100bs	100 mL bucket of swing rotors, S/SO-100-4
Bd50c	2 x 50 mL conical bucket of swing rotor, S/SO-100-4
Bd15cb	2 x 15 mL conical bucket of swing rotor, S/SO-100-4
B15-8	8 x 15 mL vacutainer of 15 mL bucket of swing rotor, S/SO-100-4
B50f	50 mL bucket of swing rotor, S/SO-50-4
B50c	50 mL conical bucket of swing rotor, S/SO-50-4
Bd15c	2 x 15 mL conical bucket of swing rotor, S/SO-50-4
Bd15	2 x 15 mL bucket of swing rotor, S/SO-15-6
B50-SS	50 mL sleeve of angle rotor A-50-10 for holding 50 mL round tubes/conical tubes
B50c-SS	50 mL sleeve of angle rotor A-50c-10 for holding 50 mL round tubes/conical tubes
B15	15 mL sleeve of angle rotor A-15-24 for holding 15 mL round tubes

Adaptors	
TR100(100)	100 mL round tube adaptor of Bucket B100bs
TR85(100)	85 mL round tube adaptor of Bucket B100bs
TR50(100)	50 mL round tube adaptor of Bucket B100bs
TR50c(100)	50 mL conical tube adaptor of bucket B100bs
TR50cs(100)	50 mL flat tube adaptor of bucket B100bs
TR30(100)	30 mL round tube adaptor of bucket B100bs
TR25c(100)	25 mL conical tube adaptor of bucket B100bs
TR15c(100)	15 mL conical adaptor of bucket B100bs
TR15-3	3 x 15 mL multi-tube rack of bucket B100bs, not applicable with bioseal cap
TR15c-3	3 x 15 mL conical multi-tube rack of bucket B100bs, not applicable with bioseal cap
TR10-5	5 x 10 mL multi-tube rack of bucket B100bs
TR7-5	5 x 7 mL multi-tube rack of bucket B100bs
TR5c-3	3 x 5 mL conical tube rack of bucket B100bs
TR2-6	6 x 1.5/2.0 mL microtube rack of bucket B100bs
TR50(50f)	50 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR50c(50f)	50 mL conical tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR30(50f)	30 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR25c(50f)	25 mL conical tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR15(50f)	15 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR14(50f)	14 mL tube adaptor of rotor A-50-10, AO-50-10 and bucket B50f
TR50(50c)	50 mL round tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c, B50c
TR50cs(50c)	50 mL flat tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c, B50c
TR30(50c)	30 mL round tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c, B50c
TR25c(50c)	25 mL conical tube adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c, B50c
TR15c(50c)	15 mL conical adaptor of rotor, A-50c-10, AO-50c-10 and bucket Bd50c, B50c
TR14(15)	1 mL round tube adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8, Bd15
TR5(15)	5 mL adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8, Bd15
TR5c(15)	5 mL conical tube adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8, Bd15
TR3(15)	3 mL adaptor of rotor A-15-24, AO-15-24, AO-15/10-12 and bucket B15-8, Bd15
TR14(15c)	14 mL adaptor of bucket Bd15cb, Bd15c
TR5c(15c)	5 mL conical adaptor of bucket Bd15cb, Bd15c

DISTRIBUTION

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