

Popular Model

Table-top Refrigerated Centrifuge

Large sample handling/high-speed Bench Top refrigerated centrifuge.

Combi 514R



Fixed angle rotor

TEMP -10 °C to +40 °C	15,000	24,878	250ml X 6
	MAX. RPM	MAX. RCF	MAX. CAP



Swingout rotor

TEMP -10 °C to +40 °C	4,500	4,392	750ml X 4
	MAX. RPM	MAX. RCF	MAX. CAP

Features

- Co-using Angle & Swing rotor
- Using bucket style 750ml high-capacity swing rotor
- Ergonomically arranged and designed
- Spin down (Pulse function)
- Customized key pad (Easy operation and correction)
- 10 steps for acceleration and deceleration can be selected for delicate liquid experiment
- Eco-friendly CFC Free freezing system
- RPM/RCF auto calculating
- Changing term of timer during operation
- Radius of rotor set up by unit of 0.1mm
- Memory for saving experiment condition
- Fast Cooling(down to 4°C in 15 min)
- Short spin key : Spin down in 1 min
- lid latch by motor : preventing imbalance of sample

AC Induction Motor Cooling System

Speedy acceleration and deceleration, little noise and vibration. Capability for large Sample(0.2ml~750ml). Efficient Cooling by CFC Free Freezing system.

Easy to Keypad

Applied easy to use control pad for anybody.

Rotor Switching System

Easy to exchange angle or Switching Rotor for handling various samples.



S750T-4B



TM96-4S



A250S-6

Description	Specification	Remarks
RPM	15,000 rpm (Fixed angle rotor) 4,500 rpm (Swing rotor)	A50S-8 S750T-4B
RCF	24,878 xg (Fixed angle rotor) 4,392 xg (Swing rotor)	A50S-8 S750T-4B
Max. capacity	250ml x 6 (Fixed angle rotor) 750ml x 4 (Swing rotor)	
Time	99hrs 59min 59sec	
Display	RPM, RCF, Time, Temperature, Program, Temp.Limit, Accel/Decel Time, Rotor Number, Rotor Radius	
Accel/Decel	10 step	
Temperature	-10 °C ~ 40 °C	
Motor	AC Induction Motor	
Power supply	220V, 50/60Hz, single phase	
Dimension	723W x 665D x 387H/mm	
Weight, Kg	112Kg	

* Please note that technical specifications subject to change.

Swing Rotors

S500T- 4B No.12



Type Swing Rotor $\angle 90^\circ\text{C}$
Max. RPM 4,500 rpm
Max. RCF 4,392 xg
Radius 194 mm
Dim. 262 x 262 x 62 mm

B500



Round Bucket
500ml capacity

B500 Lid



Sealing Cap

TM96-4S



MicroTiter Plate rack

Tube Capacity (ml)	5	10	15	50	100(85ml)	250	500	50	15	MTP
Dimensions \varnothing x L mm	12 x 75	16 x 100	16 x 114	29 x 104	38 x 105.7	61.8 x 123	69.5 x 170.2	30 x 115	17 x 120	
Tube Type										
Adapter										
Tube per Adapter	26	9	9	4	1	1	1	3	7	-
Tube per Rotor	104	36	36	16	4	4	4	12	28	4
Max.RCF	3,433	4,279	4,290	4,290	4,290	4,290	4,347	4,302	4,313	3,486
radius (mm)	191.9	189.0	189.5	189.5	189.5	189.5	192.0	190.0	190.5	154.0
RPM	4,000	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,000
boring \varnothing x L mm	13 x 70	17 x 64	16.5 x 85	30 x 85.5	38.5 x 84.5	62 x 100	73 x 101	30 x 90	17 x 95.5	-
Color / Material	Magenta	Cyan	Khaki	Sky Blue	Brown	Violet	Chartreuse	Blue	Pink	-
Cat.NO.	T5-26	TR10-9	TR15-9	TR50-4	TR100-1	TR250-1	TR500-1	TR50-3C	TR15-7C	-
Max. length \varnothing x L mm	13 x 153.5	17x151	16.5x151.5	30x151.5	38.5x151.5	62x151.5	73x154	30x152	17x152.5	-

Combi 514R Max. RPM : 4,500 Max. RCF : 4,392 xg

Combi 408 Max. RPM : 4,000 Max. RCF : 3,470 xg

Large centrifuge accessories



Swing Rotors

S750T - 4B No.13



Type Swing Rotor $\angle 90^\circ\text{C}$
Max. RPM 4,000 rpm
Max. RCF 3,515 xg
Radius 196.5 mm
Dim. 277 x 277 x 55 mm

B750



Round Bucket
750ml capacity

B750 Lid



Sealing Cap

TM96-4S



MicroTiter Plate rack

Tube Capacity (ml)	5	10	15	50	250	500	750	50	15	50	MTP
Dimensions \varnothing x L mm	12 x 75	13 x 100	16 x 114	29 x 104	61.8 x 123	69.5 x 170.2	97 x 152	30 x 115	17 x 120		
Tube Type											
Adapter											
Tube per Adapter	26	26	19	7	1	1	-	5	14	5	-
Tube per Rotor	104	104	76	28	4	4	4	20	56	20	4
Max.RCF	3,433	3,417	3,438	3,288	3,463	3,458	3,515	3,452	3,413	3,336	2,925
radius (mm)	191.9	191.0	192.2	183.8	193.6	193.3	196.5	193.0	190.8	186.5	163.5
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
boring \varnothing x L mm	13 x 70	14 x 89.5	17 x 99.5	29.2 x 81	62.2 x 99	75.5 x 99	99 x 105	29.5 x 99.5	17 x 89	27 x 65	-
Color / Material	Magenta	Yellow	Green	White	Cyan	Violet	-	Blue	Sky Blue	Black	-
Cat.NO.	T5-26	T10-26	T15-19	T50-7	T250-1	T500-	-	T50-5C	T15-14C	TS50-5	-
Max. length \varnothing x L mm	13 x 153.5	14 x 152.5	17 x 151	29.2 x 145	62.2 x 155	75.5 x 55	99 x 158	29.5 x 146.5	17 x 152	27 x 90	-
Adapter											
Tube per Adapter	30	24	17	4	1	1					
Tube per Rotor	120	29	68	16	4	4					
Max.RCF	3,336	3,336	3,336	3,336	3,336	3,336					
radius (mm)	186.5	186.5	186.5	186.5	186.5	186.5					
RPM	4,000	4,000	4,000	4,000	4,000	4,000					
boring \varnothing x L mm	13 x 55	13.5 x 80	17.3 x 80	29 x 80	62 x 80	74 x 80					
Color / Material	Crimson	Yellow	Green	White	Red	Blue					
Cat.NO.	T5-30	T10-24	T15-17	T50-4	T250-1	T500-1					
Max. length \varnothing x L mm	13 x 148	13.5 x 148	17.3 x 148	29 x 148	62 x 148	74 x 148					

Combi 514R Max. RPM : 4,000 Max. RCF : 3,515 xg

Combi 408 Max. RPM : 4,000 Max. RCF : 3,515 xg

Swing Rotors

WS750 - 6B Wind shield



Type Swing Rotor $\angle 90^\circ\text{C}$
Max. RPM 4,500 rpm
Max. RCF 5,096 xg
Radius 225.1 mm
Dim. 333.5 x 381 x 61.5 mm



Tube Capacity (ml)	5	10	15	50	250	500	750	50	15	50	MTP
Dimensions Ø x L mm	12 x 75	13 x 100	16 x 114	29 x 104	61.8 x 123	69.5 x 170.2	97 x 152	30 x 115	17 x 120		
Tube Type											
Adapter											
Tube per Adapter	26	26	19	7	1	1	-	5	14	5	-
Tube per Rotor	156	156	114	42	6	6	6	30	84	30	6
Max.RCF	4,992	4,972	4,997	4,809	5,030	5,024	5,094	5,071	4,967	4,870	3,433
radius (mm)	220.5	219.6	220.7	212.4	222.2	221.9	225.0	221.6	219.4	215.1	191.9
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500
boring Ø x L mm	13 x 0	14 x 89.5	17 x 99.5	29.2 x 81	62.2 x 99	75.5 x 99	99x105	29.5 x 99.5	17 x 89	27 x 65	-
Color / Material	Magenta	Yellow	Green	White	Cyan	Violet	-	Blue	Sky Blue	Black	-
Cat.NO.	T5-26	T10-26	T15-19	T50-7	T250-1	T500-1	-	T50-5C	T15-14C	TS50-5	-
Max. length Ø x L mm	13 x 157	14 x 156.5	17 x 157.5	29.2 x 149	62.2 x 159	75.5 x 158.5	99 x 162	29.5 x 158.5	17 x 156	27 x 90	-
Adapter											
Tube per Adapter	30	24	17	4	1	1					
Tube per Rotor	180	144	102	24	6	6					
Max.RCF	4,870	4,870	4,870	4,870	4,870	4,870					
radius (mm)	215.1	215.1	215.1	215.1	215.1	215.1					
RPM	4,500	4,500	4,500	4,500	4,500	4,500					
boring Ø x L mm	13 x 55	13.5 x 80	17.3 x 80	29 x 80	62 x 80	74 x 80					
Color / Material	Crimson	Yellow	Green	White	Red	Blue					
Cat.NO.	T5-30	T10-24	T15-17	T50-4	T250-1	T500-1					
Max. length Ø x L mm	17 x 152	13.5 x 152	17.3 x 152	29 x 152	62 x 152	74 x 152					

Continent 512R Max. RPM : 4,500 Max. RCF : 5,096 xg

Swing Rotors

S750T - 6B No.14
























Type Swing Rotor $\angle 90^\circ$
Max. RPM 4,500 rpm
Max. RCF 5,096 xg
Radius 225.1 mm
Dim. 333.7 x 362 x 55 mm



















Tube Capacity (ml)	5	10	15	50	250	500	750	50	15	50	MTP
Dimensions \varnothing x L mm	12 x 75	13 x 100	16 x 114	29 x 104	61.8 x 123	69.5 x 170.2	97 x 152	30 x 115	17 x 120		
Tube Type											
Adapter											
Tube per Adapter	26	26	19	7	1	1	-	5	14	5	-
Tube per Rotor	156	156	114	42	6	6	6	30	84	30	6
Max.RCF	4,992	4,972	4,997	4,809	5,030	5,024	5,094	5,071	4,967	4,870	3,433
radius (mm)	220.5	219.6	220.7	212.4	222.2	221.9	225.0	221.6	219.4	215.1	191.9
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500
boring \varnothing x L mm	13 x 0	14 x 89.5	17 x 99.5	29.2 x 81	62.2 x 99	75.5 x 99	99x105	29.5 x 99.5	17 x 89	27 x 65	-
Color / Material	Magenta	Yellow	Green	White	Cyan	Violet	-	Blue	Sky Blue	Black	-
Cat.NO.	T5-26	T10-26	T15-19	T50-7	T250-1	T500-1	-	T50-5C	T15-14C	TS50-5	-
Max. length \varnothing x L mm	13 x 157	14 x 156.5	17 x 157.5	29.2 x 149	62.2 x 159	75.5 x 158.5	99 x 162	29.5 x 158.5	17 x 156	27 x 90	-
Adapter											
Tube per Adapter	30	24	17	4	1	1					
Tube per Rotor	180	144	102	24	6	6					
Max.RCF	4,870	4,870	4,870	4,870	4,870	4,870					
radius (mm)	215.1	215.1	215.1	215.1	215.1	215.1					
RPM	4,500	4,500	4,500	4,500	4,500	4,500					
boring \varnothing x L mm	13 x 55	13.5 x 80	17.3 x 80	29 x 80	62 x 80	74 x 80					
Color / Material	Crimson	Yellow	Green	White	Red	Blue					
Cat.NO.	T5-30	T10-24	T15-17	T50-4	T250-1	T500-1					
Max. length \varnothing x L mm	17 x 152	13.5 x 152	17.3 x 152	29 x 152	62 x 152	74 x 152					

Continent 512R Plus Max. RPM : 4,500 Max. RCF : 5,096 xg












Angle Rotors

	A0.2S-48 No.18	Tube Capa.	0.2ml	0.2ml			Combi 514R Max. RPM : 12,500 Max. RCF : 15,530 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,361 xg
		DIM. Ø x L mm	6 x 18				
		Tube Type					
		Adapter					
	Type	Angle Rotor ∠45°C					
	Max. RPM	12,500 rpm					
	Max. RC	15,530 xg					
	Radius	88.9 mm					
		Tube per Rotor	48	6-Strips			
		Max.RCF		15,530			
		radius (mm)		88.9			
		boring Ø x L mm		6.5 x 15			
		Cat.NO.					
	A1.5S-24 No.1	Tube Capa.	0.2ml	0.5ml	1.5ml	2.0ml	Combi 514R Max. RPM : 15,000 Max. RCF : 20,325 xg Combi 408 Max. RPM : 8,000 Max. RCF : 5,781 xg
		DIM. Ø x L mm	6 x 18	8 x 30	11 x 38	11 x 38	
		Tube Type					
		Adapter					
	Type	Angle Rotor ∠40°C					
	Max. RPM	30,000 rpm					
	Max. RC	81,301 xg					
	Radius	80.8 mm					
		Tube per Rotor			24		
		Max.RCF	61,982	70,434		81,301	
		radius (mm)	61.6	70.0		80.8	
		boring Ø x L mm	6 x 21	8 x 37		11 x 37.5	
		Cat.NO.					
	A1.5S-36 No.14	Tube Capa.	0.2ml	0.5ml	1.5ml	2.0ml	Combi 514R Max. RPM : 14,000 Max. RCF : 25,353 xg Combi 408 Max. RPM : 8,000 Max. RCF : 8,279 xg
		DIM. Ø x L mm	6 x 18	8 x 30	11 x 38	11 x 38	
		Tube Type					
		Adapter					
	Type	Angle Rotor ∠45°C					
	Max. RPM	20,000 rpm					
	Max. RC	52,546 xg					
	Radius	115.7 mm					
		Tube per Rotor			36		
		Max.RCF	42,573	46,643		52,546	
		radius (mm)	95.2	104.3		115.7	
		boring Ø x L mm	6 x 21	8 x 37		11 x 37.5	
		Cat.NO.					
	A10S-12 No.2	Tube Capa.	10ml				Combi 514R Max. RPM : 15,000 Max. RCF : 21,407 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,089 xg
		DIM. Ø x L mm	16 x 82				
		Tube Type					
		Adapter					
	Type	Angle Rotor ∠36°C					
	Max. RPM	30,000 rpm					
	Max. RC	85,628 xg					
	Radius	85.1 mm					
		Tube per Rotor	12				
		Max.RCF	85,628				
		radius (mm)	85.1				
		boring Ø x L mm	16.3 x 74.5				
		Cat.NO.					
	A15S-12C No.8	Tube Capa.	15ml				Combi 514R Max. RPM : 15,000 Max. RCF : 25,004 xg Combi 408 Max. RPM : 8,000 Max. RCF : 7,112 xg
		DIM. Ø x L mm	17 x 120				
		Tube Type					
		Adapter					
	Type	Angle Rotor ∠25°C					
	Max. RPM	17,000 rpm					
	Max. RC	32,116 x g					
	Radius	99.4 mm					
		Tube per Rotor	12				
		Max.RCF	32,116				
		radius (mm)	99.4				
		boring Ø x L mm	17 x 115				
		Cat.NO.					

Angle Rotors

	A15S-12 No.4	Tube Capa.	15(16)ml			Combi 514R Max. RPM : 15,000 Max. RCF : 24,174 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,876 xg
		DIM. Ø x L mm	18 x 100			
		Tube Type				
		Adapter				
	Type	Angle Rotor ∠25°C	Tube per Rotor	12		
	Max. RPM	30,000 rpm	Max.RCF	96,696		
	Max. RC	96,696 xg	radius (mm)	96.1		
	Radius	96.1 mm	boring Ø x L mm	19 x 96		
			Cat.NO.			
	A50S-6C No.6	Tube Capa.	50ml			Combi 514R Max. RPM : 15,000 Max. RCF : 22,891 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,511 xg
		DIM. Ø x L mm	29 x 115			
		Tube Type				
		Adapter				
	Type	Angle Rotor ∠40°C	Tube per Rotor	6		
	Max. RPM	17,000 rpm	Max.RCF	29,402		
	Max. RC	29,402 xg	radius (mm)	91.0		
	Radius	91 mm	boring Ø x L mm	29.5 x 108.6		
			Cat.NO.			
	A50S-6 No.5	Tube Capa.	15(16)ml	50ml	50ml	Combi 514R Max. RPM : 15,000 Max. RCF : 24,174 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,876 xg
		DIM. Ø x L mm	18 x 100	28.7 x 104	28.8 x 107	
		Tube Type	  			
		Adapter				
	Type	Angle Rotor ∠30°C	Tube per Rotor	6		
	Max. RPM	30,000 rpm	Max.RCF	90,558	96,696	
	Max. RC	96,696 xg	radius (mm)	90.0	96	
	Radius	96.1 mm	boring Ø x L mm	18.5 x 92	29 x 100	
			Cat.NO.			
	A50S-8 No.7	Tube Capa.	15(16)ml	50ml	50ml	Combi 514R Max. RPM : 15,000 Max. RCF : 24,878 xg Combi 408 Max. RPM : 8,000 Max. RCF : 7,076 xg
		DIM. Ø x L mm	18 x 100	28.7 x 104	28.8 x 107	
		Tube Type	  			
		Adapter				
	Type	Angle Rotor ∠36°C	Tube per Rotor	8		
	Max. RPM	30,000 rpm	Max.RCF	93,375	99,513	
	Max. RC	99,513 xg	radius (mm)	92.8	98.9	
	Radius	98.9 mm	boring Ø x L mm	18.5 x 92	29 x 100	
			Cat.NO.			
	A85S-6 No.9	Tube Capa.	85ml			Combi 514R Max. RPM : 15,000 Max. RCF : 23,193 xg Combi 408 Max. RPM : 8,000 Max. RCF : 6,597 xg
		DIM. Ø x L mm	38.2 x 105.7			
		Tube Type				
		Adapter				
	Type	Angle Rotor ∠25°C	Tube per Rotor	6		
	Max. RPM	25,000 rpm	Max.RCF	64,425		
	Max. RC	64,425 xg	radius (mm)	92.2		
	Radius	92.2 mm	boring Ø x L mm	38.5 x 90		
			Cat.NO.			

Angle Rotors

A85S-10 No.17 	Tube Capa.	85ml				Combi 514R Max. RPM : 10,000 Max. RCF : 14,489 xg
	DIM. Ø x L mm	38.2 x 105.7				
Tube Type						
Adapter						
Tube per Rotor	10					
Type Angle Rotor ∠33°C	Max.RCF	32,601				
Max. RPM 15,000 rpm	radius (mm)	129.6				
Max. RC 32,601 xg	boring Ø x L mm	38.5 x 97				
Radius 129.6 mm	Cat.NO.					
A250S-6 No.10 	Tube Capa.	250ml	250ml			Combi 514R Max. RPM : 10,000 Max. RCF : 15,462 xg Continent 512R Plus Max. RPM : 12,000 Max. RCF : 22,265 xg
	DIM. Ø x L mm	61.8 x 127.7	61 x 134			
Tube Type						
Adapter						
Tube per Rotor	6					
Type Angle Rotor ∠25°C	Max.RCF	30,305				
Max. RPM 14,000 rpm	radius (mm)	138.3				
Max. RC 30,305 xg	boring Ø x L mm	62 x 103				
Radius 138.3mm	Cat.NO.					
A500S-6 No.11 	Tube Capa.	500ml				Continent 512R Plus Max. RPM : 10,000 Max. RCF : 17,743 xg
	DIM. Ø x L mm	69.5 x 170				
Tube Type						
Adapter						
Tube per Rotor	6					
Type Angle Rotor ∠25°C	Max.RCF	17,743				
Max. RPM 10,000 rpm	radius (mm)	158.7				
Max. RC 17,743 xg	boring Ø x L mm	70 x 141				
Radius 158.7 mm	Cat.NO.					
A1000S-4 No.11 	Tube Capa.	1000ml				Continent 512R Plus Max. RPM : 8,000 Max. RCF : 12,157 xg
	DIM. Ø x L mm	96 x 176				
Tube Type						
Adapter						
Tube per Rotor	4					
Type Angle Rotor ∠25°C	Max.RCF	12,157				
Max. RPM 8,000 rpm	radius (mm)	169.9				
Max. RC 12,157 xg	boring Ø x L mm	97 x 144				
Radius 169.9 mm	Cat.NO.					
A1000S-6 No.13 	Tube Capa.	1000ml				Continent 512R Plus Max. RPM : 7,000 Max. RCF : 10,962 xg
	DIM. Ø x L mm	96 x 176				
Tube Type						
Adapter						
Tube per Rotor	6					
Type Angle Rotor ∠25°C	Max.RCF	10,962				
Max. RPM 7,000 rpm	radius (mm)	200.1				
Max. RC 10,962 xg	boring Ø x L mm	97.5 x 144				
Radius 200.1 mm	Cat.NO.					