



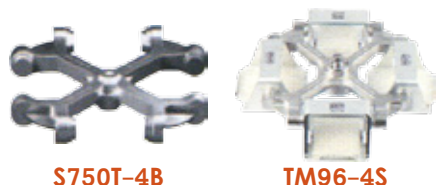
### LGCEN-514R, Table-top Refrigerated Centrifuge

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

#### 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 0.1 mm
- 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.

#### Swing Rotors (more details page 127)



#### 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.




Model	LGCEN-514R	
<b>RPM</b>	15,000 rpm (Fixed angle rotor) 4,500 rpm (Swing rotor)	A50S-8
<b>RCF</b>	24,878 xg (Fixed angle rotor) 4,392 xg (Swing rotor)	S750T-4B
<b>Max. capacity</b>	250ml x 6 (Fixed angle rotor) 750ml x 4 (Swing rotor)	A50S-8
<b>Time</b>	99hrs 59min 59sec	S750T-4B
<b>Display</b>	RPM, RCF, Time, Temperature, Program, Temp. Limit, Accel/Decel Time, Rotor Number, Rotor Radius	
<b>Accel/Decel</b>	10 step	
<b>Temperature</b>	-10°C~+40°C	
<b>Motor</b>	AC Induction Motor	WS750-6B
<b>Power supply</b>	220V, SO/60Hz, single phase	
<b>Dimension</b>	723W x 665D x 387H/mm	
<b>Weight</b>	112Kg	







\* Please note that technical specifications subject to change.


#### Angle Rotors for LGCEN-514R (more details page 125-127)











<p><b>A0.2S-48</b></p>  <p>Type: Angle Rotor &lt;45°C Max. RPM: 12,500rpm Max. RCF: 15,530 xg Radius: 88.9mm</p>	<b>Tube Capacity (ml)</b>	0.2ml	0.2ml			<p><b>LGCEN-408</b> Max. RPM: 8,000 Max. RCF: 6,361 xg</p> <p><b>LGCEN-514R</b> Max. RPM: 12,500 Max. RCF: 15,530 xg</p>
	<b>Dimensions Ø x L mm</b>	6x18				
	<b>Tube Type</b>					
	<b>Adapter</b>					
	<b>Tube per Rotor</b>	48	6 Strips			
	<b>Max. RCF</b>	15,530				
	<b>radius (mm)</b>	88.9				
<b>boring Ø x L mm</b>	6.5x15					



<p><b>A1.5S-24</b></p>  <p>Type: Angle Rotor &lt;40°C Max. RPM: 30,000rpm Max. RCF: 81,301 xg Radius: 80.8mm</p>	<b>Tube Capacity (ml)</b>	0.2ml	0.5ml	1.5ml	2.0ml	<p><b>LGCEN-408</b> Max. RPM: 8,000 Max. RCF: 5,781 xg</p> <p><b>LGCEN-514R</b> Max. RPM: 15,000 Max. RCF: 20,325 xg</p>
	<b>Dimensions Ø x L mm</b>	6x18	8x30	11x38	11x38	
	<b>Tube Type</b>					
	<b>Adapter</b>					
	<b>Tube per Rotor</b>	24				
	<b>Max. RCF</b>	61,982	70,434	81,301		
	<b>radius (mm)</b>	61.6	70	80.8		
	<b>boring Ø x Lmm</b>	6x21	8x37	11x37.5		

<p><b>A1.5S-36</b></p>  <p>Type: Angle Rotor &lt;45°C Max. RPM: 20,000rpm Max. RCF: 52,546 xg Radius: 115.7mm</p>	<b>Tube Capacity (ml)</b>	0.2ml	0.5ml	1.5ml	2.0ml	<p><b>LGCEN-408</b> Max. RPM: 8,000 Max. RCF: 8,279 xg</p> <p><b>LGCEN-514R</b> Max. RPM: 14,000 Max. RCF: 25,353 xg</p>
	<b>Dimensions Ø x L mm</b>	6x18	8x30	11x38	11x38	
	<b>Tube Type</b>					
	<b>Adapter</b>					
	<b>Tube per Rotor</b>	36				
	<b>Max. RCF</b>	42,573	46,643	52,546		
	<b>radius (mm)</b>	95.2	104.3	115.7		
	<b>boring Ø x Lmm</b>	6x21	8x37	11x37.5		

<p><b>A10S-12</b></p>  <p>Type: Angle Rotor &lt;36°C Max. RPM: 30,000rpm Max. RCF: 85,628 xg Radius: 85.1mm</p>	<b>Tube Capacity (ml)</b>	10ml				<p><b>LGCEN-408</b> Max. RPM: 8,000 Max. RCF: 6,361 xg</p> <p><b>LGCEN-514R</b> Max. RPM: 12,500 Max. RCF: 15,530 xg</p>
	<b>Dimensions Ø x L mm</b>	16x82				
	<b>Tube Type</b>					
	<b>Adapter</b>					
	<b>Tube per Rotor</b>	12				
	<b>Max. RCF</b>	85,628				
	<b>radius (mm)</b>	85.1				
<b>boring Ø x L mm</b>	16.3x74.5					



<p><b>A15S-12C</b></p>  <p>Type: Angle Rotor &lt;25°C Max. RPM: 17,000rpm Max. RCF: 32,084 xg Radius: 99.3mm</p>	<b>Tube Capacity (ml)</b>	15ml				<p><b>LGCEN-408</b> Max. RPM: 8,000 Max. RCF: 7,112 xg</p> <p><b>LGCEN-514R</b> Max. RPM: 15,000 Max. RCF: 25,004 xg</p>
	<b>Dimensions Ø x L mm</b>	17x120				
	<b>Tube Type</b>					
	<b>Tube per Rotor</b>	12				
	<b>Max. RCF</b>	32,116				
	<b>radius (mm)</b>	99.4				
	<b>boring Ø x Lmm</b>	17x115				

<p><b>A15S-12</b></p>  <p>Type: Angle Rotor &lt;25°C Max. RPM: 30,000rpm Max. RCF: 96,696 xg Radius: 96.1mm</p>	Tube Capacity (ml)	15(16)ml				<p>LGCEN-408 Max. RPM: 8,000 Max. RCF: 6,876 xg</p> <p>LGCEN-514R Max. RPM: 15,000 Max. RCF: 24,174 xg</p>
	Dimensions Ø x L mm	18x100				
	Tube Type					
	Adapter					
	Tube per Rotor	12				
	Max. RCF	96,696				
	radius (mm)	96.1				
boring Ø x L mm	19x96					

<p><b>A50S-6C</b></p>  <p>Type: Angle Rotor &lt;40°C Max. RPM: 17,000rpm Max. RCF: 29,402 xg Radius: 91mm</p>	Tube Capacity (ml)	50ml				<p>LGCEN-408 Max. RPM: 8,000 Max. RCF: 6,511 xg</p> <p>LGCEN-514R Max. RPM: 15,000 Max. RCF: 22,891 xg</p>
	Dimensions Ø x L mm	29x115				
	Tube Type					
	Adapter					
	Tube per Rotor	6				
	Max. RCF	29,693				
	radius (mm)	91.9				
boring Ø x Lmm	29.5x108.6					

<p><b>A50S-6</b></p>  <p>Type: Angle Rotor &lt;30°C Max. RPM: 30,000rpm Max. RCF: 96,696 xg Radius: 96.1mm</p>	Tube Capacity (ml)	15(16)ml	50ml	50ml		<p>LGCEN-408 Max. RPM: 8,000 Max. RCF: 6,876 xg</p> <p>LGCEN-514R Max. RPM: 15,000 Max. RCF: 24,174 xg</p>
	Dimensions Ø x L mm	18x100	28.7x104	28.8x107		
	Tube Type					
	Adapter					
	Tube per Rotor	6				
	Max. RCF	90,558	96,696			
	radius (mm)	90.0	96.1			
boring Ø x Lmm	18.5 x 92	29 x 100				

<p><b>A50S-8</b></p>  <p>Type: Angle Rotor &lt;30°C Max. RPM: 30,000rpm Max. RCF: 99,513 xg Radius: 98.9mm</p>	Tube Capacity (ml)	15(16)ml	50ml	50ml		<p>LGCEN-408 Max. RPM: 8,000 Max. RCF: 7,076 xg</p> <p>LGCEN-514R Max. RPM: 15,000 Max. RCF: 24,878 xg</p>
	Dimensions Ø x L mm	18x100	28.7x104	28.8x107		
	Tube Type					
	Adapter					
	Tube per Rotor	8				
	Max. RCF	93,375	99,513			
	radius (mm)	92.8	98.9			
boring Ø x Lmm	18.5 x 92	29 x 100				

<p><b>A85S-6</b></p>  <p>Type: Angle Rotor &lt;25°C Max. RPM: 25,000rpm Max. RCF: 64,425 xg Radius: 92.2mm</p>	Tube Capacity (ml)	85ml				<p>LGCEN-408 Max. RPM: 8,000 Max. RCF: 6,597 xg</p> <p>LGCEN-514R Max. RPM: 15,000 Max. RCF: 23,193 xg</p>
	Dimensions Ø x L mm	38.2 x 105.7				
	Tube Type					
	Tube per Rotor	6				
	Max. RCF	64,425				
	radius (mm)	92.2				
boring Ø x Lmm	38.5 x 90					



**S500T-4B (for LGCEN-514R & LGCEN-408)**

**Type** Swing Rotor  $\angle 90^\circ$   
**Max. RPM** 4,500 rpm  
**Max. RCF** 4,392 xg  
**Radius** 194 mm  
**Dlm.** 262x262x62 mm

**B500** **B500 Lid** **TM96-4S**

**Round Bucket** 500ml capacity **Sealing Cap** **MicroTiter Plate rack**

Model	T5-26	TR10-9	TR15-9	TR50-4	TR100-1	TR250-1	TR500-1	TR50-3C	TR15-7C	
<b>Tube Capacity (ml)</b>	5	10	15	50	100(85ml)	250	500	50	15	MTP
<b>Dimensions <math>\varnothing</math> x L mm</b>	12x75	16x100	16x114	29x104	38x105.7	61.8x123	69.5x170.2	30x115	17x120	
<b>Tube Type</b>										
<b>Adapter</b>										-
<b>Tube per Adapter</b>	26	9	9	4	1	1	1	3	7	-
<b>Tube per Rotor</b>	104	36	36	16	4	4	4	12	28	4
<b>Max. RCF radius (mm)</b>	3,433	4,279	4,290	4,290	4,290	4,290	4,347	4,302	4,313	3,486
<b>radius (mm)</b>	191.9	189.0	189.5	189.5	189.5	189.5	192.0	190.0	190.5	154.0
<b>RPM</b>	4,000	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,000
<b>boring <math>\varnothing</math> x Lmm</b>	13x70	17x64	16.5x85	30x85.5	38.5x84.5	62x100	73x101	30x90	17x95.5	-
<b>Color / Material</b>	Magenta	Cyan	Khaki	Sky Blue	Brown	Violet	Chartreuse	Blue	Pink	-
<b>Max. length <math>\varnothing</math> x L mm</b>	13x153.5	17x151	16.5x151.5	30x151.5	38.5x151.5	62x151.5	73x154	30x152	17x152.5	-

**LGCEN-514R** Max. RPM: 4,500 Max. RCF: 4,392 xg **LGCEN-408** Max. RPM: 4,000 Max. RCF: 3,470 xg

**S750T-4B**

**Type** Swing Rotor  $\angle 90^\circ$   
**Max. RPM** 4,000 rpm  
**Max. RCF** 3,515 xg  
**Radius** 196.5 mm  
**Dlm.** 277X277X55 mm

**B750** **B750 Lid** **TM96-4S**

**Round Bucket** 750ml capacity **Sealing Cap** **MicroTiter Plate rack**

Model	T5-26	T10-26	T15-19	T50-7	T250-1	T500-1		T50-5C	T15-14C	T50-5	
<b>Tube Capacity (ml)</b>	5	10	15	50	250	500	750	50	15	50	MTP
<b>Dimensions <math>\varnothing</math> x L mm</b>	12x75	13x100	16x114	29x104	61.8x123	69.5x170.2	97x152	30x115	17x120	-	-
<b>Tube Type</b>										-	
<b>Adapter</b>							-			-	-
<b>Tube per Adapter</b>	26	26	19	7	1	1	-	5	14	5	-
<b>Tube per Rotor</b>	104	104	76	28	4	4	4	20	56	20	4
<b>Max. RCF radius (mm)</b>	3,433	3,417	3,438	3,288	3,463	3,458	3,515	3,452	3,413	3,336	2,925
<b>radius (mm)</b>	191.9	191.0	192.2	183.8	193.6	193.3	196.5	193.0	190.8	186.5	163.5
<b>RPM</b>	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
<b>boring <math>\varnothing</math> x Lmm</b>	13x70	14x89.5	17x99.5	29.2x81	62.2x99	75.5x99	99x105	29.5x99.5	17x89	27x65	-
<b>Color / Material</b>	Magenta	Yellow	Green	White	Cyan	Violet	-	Blue	Sky Blue	Black	-
<b>Max. length <math>\varnothing</math> x L mm</b>	13x153.5	14.1x152.5	17x151	29.2x145	62.2x155	75.5x155	99x158	29.5x146.5	17x152	27x90	-

Model	T5-30	T10-24	T15-17	T50-4	T250-1	T500-1
<b>Adapter</b>						
<b>Tube per Adapter</b>	30	24	17	4	1	1
<b>Tube per Rotor</b>	120	29	68	16	4	4
<b>Max. RCF radius (mm)</b>	3,336	3,336	3,336	3,336	3,336	3,336
<b>radius (mm)</b>	186.5	186.5	186.5	186.5	186.5	186.5
<b>RPM</b>	4,000	4,000	4,000	4,000	4,000	4,000
<b>boring <math>\varnothing</math> x Lmm</b>	13x55	13.5x80	17.3x80	29x80	62x80	74x80
<b>Color / Material</b>	Crimson	Yellow	Green	White	Red	Blue
<b>Max. length <math>\varnothing</math> x L mm</b>	13x148	13.5x148	17.3x148	29x148	62x148	74x148

**LGCEN-408** Max. RPM: 4,000 Max. RCF: 3,515 xg  
**LGCEN-514R** Max. RPM: 4,000 Max. RCF: 3,515 xg