

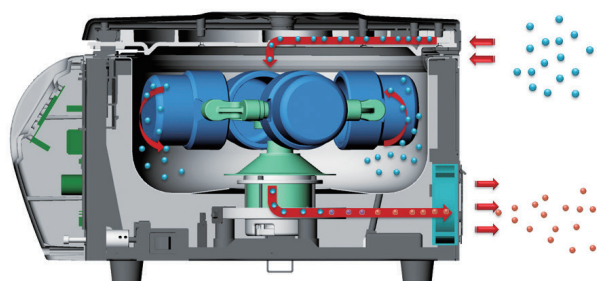
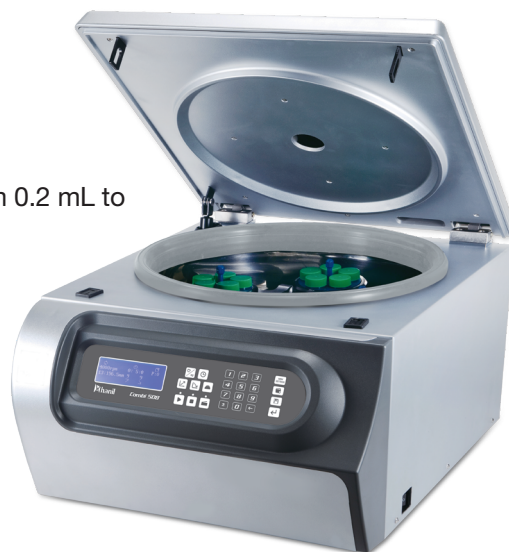
Multi-purpose Centrifuges

T04B / T05R / Combi 508 / Combi R515

Multi-purpose Centrifuge

Combi 508

- Compact benchtop, multi-purpose centrifuge
- Ideal for routine usage of 4 x 750 mL swing-out centrifugation
- Very quiet and static operation with BLDC motor
- The extensive range of accessories can accommodate tubes from 0.2 mL to 750 mL as well as microtiter plates.
- Automatic rotor identification
- Imbalance cutoff and tracking
- Intuitive and easy control and informative display
- Smooth operation with motorized lid opening and closure



Unique air flow structure for effective noise reduction and excellent cooling

Technical Specifications

		Combi 508 / Combi 408*	Combi R515 / Combi 514R*
Speed RCF (xg)	Max. RPM (Fixed angle)	8,000 rpm	15,000 rpm
	Max. RCF (Fixed angle)	8,279 xg	25,353 xg
	Max. RPM (Swing-out)	4,000 rpm	4,500 rpm
	Max. RCF (Swing-out)	3,515 xg	4,392 xg
Max. capacity	Fixed angle	6 x 85 mL	6 x 250 mL, 36 x 1.5 / 2.0 mL
	Swing-out	4 x 750 mL	4 x 750 mL, 76 x 15 mL, 4 MTPs
ACC/DEC ramps		10/10 steps	
Temperature range		-	-10°C to 40°C
Time control		< 2 hr, continuous	< 100 hr, pulse, continuous
Program memory		100	
Noise level		≤ 65 dB	≤ 65 dB
Imbalance cutoff / tracking		Yes / Yes	Yes / Yes
Rotor identification		Automatic	Automatic
Dimension (W x D x H, mm)		530 x 676 x 400	723 x 665 x 387
Weight without rotor		61 kg	95 kg
Power consumption		2.1 kVA	2.5 kw
Power supply (V/Hz)		210 V ~ 240 V, 50 / 60 Hz (110 V optional)	210 V~240 V, 50 / 60 Hz (110 V optional)
Cat. No.		CB-508 / CB-408	CB-R515 / CB-514R

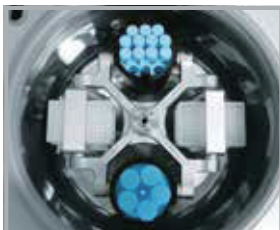
* Registered as medical device at MFDS¹⁾

¹⁾ MFDS : Ministry of Food and Drug Safety (KOREA)

Multi-purpose Centrifuge

Combi R515

- Multi-purpose centrifuge for using both fixed angle and swing-out rotors
- Robust and practical benchtop design
- Performance up to 15,000 rpm (24,000 xg) with 6 x 85 mL rotor
- Can be used with many different rotors and adaptors for a wide variety of applications
- Large capacity swing-out rotor for 4 x 500 mL up to 4,500 rpm (4,300 xg)
- The extensive range of accessories can accommodate tubes from 0.2 ml to 750 ml as well as microtiter plates.
- Automatic rotor identification prevents overspeed
- Imbalance cutoff and tracking
- Intuitive and easy control and extensively informative display
- Smoothly working motorized lid opening and closure
- Excellent temperature control
- Built-in condensation drain to eliminate water accumulation
- Password lock function



S750-4 / B750 & TM96



S500-4 / B500 & TM96



A50-8

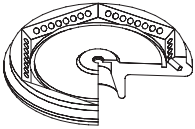
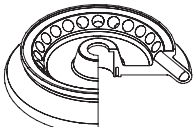




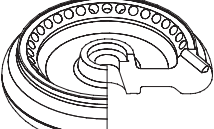






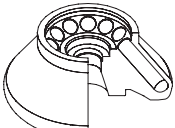

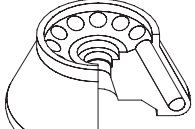

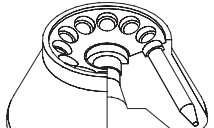



A0.2-48

Multi-purpose Centrifuges

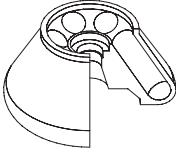


















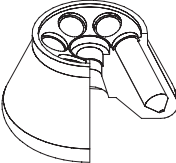


















T04B / T05R / Combi 508 / Combi R515

Fixed Angle Rotors for Combi Series (1)

Rotor		Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)	
A0.2-48 	Hole angle : $\angle 45^\circ$ Max. Capacity : 48 x 0.2 mL Size (ø x H) : ø200 x 56 mm Incl. a coupling bolt lid	Combi R515	0.2 mL -	-	6.5 x 17 88.9	12,500	
			0.2 mL PCR strip	-		15,531	
		Combi 508	0.2 mL -	-	6.5 x 17 88.9	8,000	
			0.2 mL PCR strip	-		6,361	
A2.0-24 	Hole angle : $\angle 40^\circ$ Max. Capacity : 24 x 1.5/2.0 mL Size (ø x H) : ø202 x 79 mm Max. height for tube fit : 46 mm Incl. a coupling bolt lid	Combi R515	1.5/2.0 mL -	-	11 x 37.5 80.8	15,000 20,325	
			0.5 mL -	TR0.5(2)		8 x 31 76.5	15,000 19,244
			0.2 mL -	TR0.2(2)		6.5 x 23 67	15,000 16,854
		Combi 508	1.5/2.0 mL -	-	11 x 37.5 80.8	8,000 5,781	
			0.5 mL -	TR0.5(2)		8 x 31 76.5	8,000 5,473
			0.2 mL -	TR0.2(2)		6.5 x 23 67	8,000 4,795
A2.0-36 	Type : Fixed Angle Rotor $\angle 30^\circ$ Max. Capacity : 36 x 1.5/2.0 mL Size (ø x H) : ø240 x 64 mm Max. height for tube fit : 49 mm Incl. a coupling bolt lid	Combi R515	 1.5/2.0 mL Micro-filter tube	-	11 x 37.5 115.7	14,000 25,353	
			0.5 mL	TR0.5(2)		8 x 31 111	14,000 24,323
			0.2 mL	TR0.2(2)		6.5 x 23 100	14,000 21,913
		Combi 508	 1.5/2.0 mL Micro-filter tube	-	11.5 x 37.5 115.7	8,000 8,279	
			0.5 mL	TR0.5(2)		8 x 31 111	8,000 7,942
			0.2 mL	TR0.2(2)		6.5 x 23 100	8,000 7,155
A10-12 	Hole angle : $\angle 36^\circ$ Max. Capacity : 12 x 10 mL Size (ø x H) : ø179.9 x 82 mm Max. height for tube fit : 87.1 mm Incl. a coupling bolt lid	Combi R515		-	16.3 x 74.5 85.1	15,000 21,407	
		Combi 508				8,000 6,089	
A15S-12 	Hole angle : $\angle 25^\circ$ Max. Capacity : 12 x 15 mL Size (ø x H) : ø205 x 109 mm Max. height for tube fit : 109.5 mm Incl. a coupling bolt lid	Combi R515		-	19 x 96 96.1	15,000 24,174	
		Combi 508				8,000 6,876	
A15c-12 	Hole angle : $\angle 25^\circ$ Max. Capacity : 12 x 15 mL conical Size (ø x H) : ø215 x 121 Max. height for tube fit : 123.2 mm Incl. a coupling bolt lid	Combi R515		-	17.2 X 110 99.4	15,000 25,004	
		Combi 508				8,000 7,105	

* Radius : From the center of the rotor to the inner end of tube carrier.

Fixed Angle Rotors for Combi Series (2)

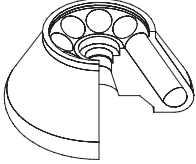


















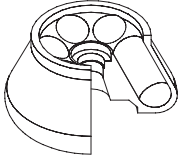


























Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)	
A50-6  Hole angle : $\angle 30^\circ$ Max. Capacity : 6 x 50 mL Size (Ø x H) : $\phi 200 \times 109$ mm Max. height for tube fit : 122.7 mm Incl. a coupling bolt lid	Combi R515	 50 mL Round	-	29.5 x 100 96.1	15,000 24,174	
		 30 mL Round	TR30(50)		26 x 83.8 90.4	15,000 22,740
		 25 mL Conical	TR25c(50)		27.1 x 14.1 76	15,000 19,118
		 15 mL Round	TR15(50)		17 x 94 89.9	15,000 22,614
		 15 mL Conical	TR15c(50)		17.2 x 105 91	15,000 22,891
	Combi 508	 50 mL Round	-		29.5 x 100 96.1	8,000 6,876
		 30 mL Round	TR30(50)		26 x 83.8 90.4	8,000 6,468
		 25 mL Conical	TR25c(50)		27.1 x 14.1 76	8,000 5,438
		 15 mL Round	TR15(50)		17 x 94 89.9	8,000 6,433
		 15 mL Conical	TR15c(50)		17.2 x 105 91	8,000 6,511
A50c-6  Hole angle : $\angle 23^\circ$ Max. Capacity : 6 x 50 mL conical Size (Ø x H) : $\phi 205.7 \times 119$ mm Max. height for tube fit : 118.5 mm Incl. a coupling bolt lid	Combi R515	 50 mL Conical	-	29.8 x 108.6 91	15,000 22,891	
		 50 mL Round	TR50(50c)		29 x 11 88.5	15,000 22,262
		 30 mL Round	TR30(50c)		26 x 83.8 87.5	15,000 22,011
		 25 mL Conical	TR25c(50c)		29 x 14.1 75.5	15,000 18,992
		 15 mL Conical	TR15c(50c)		17 x 94 86.2	15,000 21,684
	Combi 508	 50 mL Conical	-		29.8 x 108.6 91	8,000 6,511
		 50 mL Round	TR50(50c)		29 x 11 88.5	8,000 6,332
		 30 mL Round	TR30(50c)		26 x 83.8 87.5	8,000 6,261
		 25 mL Conical	TR25c(50c)		29 x 14.1 75.5	8,000 5,402
		 15 mL Conical	TR15c(50c)		17 x 94 86.2	8,000 6,168

* Radius : From the center of the rotor to the inner end of tube carrier.

Multi-purpose Centrifuges

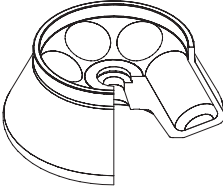



























T04B / T05R / Combi 508 / Combi R515

Fixed Angle Rotors for Combi Series (3)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)	
A50-8  Hole angle : ∠30° Max. Capacity : 8 x 50 mL Size (ø x H) : ø213 x 110.7 mm Max. height for tube fit : 110.7 mm Incl. a coupling bolt lid	Combi R515	 50 mL Round	-	29.5 x 100 98.9	15,000 24,878	
		 30 mL Round	TR30(50)		26 x 83.8 93.2	15,000 23,444
		 25 mL Conical	TR25c(50)		27.1 x 14.1 78.8	15,000 19,822
		 15 mL Round	TR15(50)		17 x 94 92.8	15,000 23,344
		 15 mL Conical	TR15c(50)		17.2 x 105 93.9	15,000 23,621
	Combi 508	 50 mL Round	-		29.5 x 100 98.9	8,000 7,077
		 30 mL Round	TR30(50)		26 x 83.8 93.2	8,000 6,669
		 25 mL Conical	TR25c(50)		27.1 x 14.1 78.8	8,000 5,639
		 15 mL Round	TR15(50)		17 x 94 92.8	8,000 6,640
		 15 mL Conical	TR15c(50)		17.2 x 105 93.9	8,000 6,719
A85-6  HHole angle : ∠25° Max. Capacity : 6 x 85 mL Size (ø x H) : ø209.1 x 112 mm Max. height for tube fit : 115.4 mm Incl. a coupling bolt lid	Combi R515	 85 mL Round	-	38.5 x 95 97.6	15,000 24,551	
		 50 mL Conical	TR50c(85)		29.5 x 98 93	15,000 23,394
		 50 mL Round	TR50(85)		29.2 x 95 92.9	15,000 23,369
		 30 mL Round	TR30(85)		26 x 85.4 91.6	15,000 23,042
		 25 mL Conical	TR25c(85)		29.5 x 62.5 80.3	15,000 20,199
		 15 mL Round	TR15(85)		17 x 94 89	15,000 22,388
		 15 mL Conical	TR15c(85)		17 x 98 89.2	15,000 22,438
	Combi 508	 85 mL Round	-		38.5 x 95 97.6	8,000 6,983
		 50 mL Conical	TR50c(85)		29.5 x 98 93	8,000 6,654
		 50 mL Round	TR50(85)		29.2 x 95 92.9	8,000 6,647
		 30 mL Round	TR30(85)		26x85.4 91.6	8,000 6,554
		 25 mL Conical	TR25c(85)		29.5 x 62.5 80.3	8,000 5,746
		 15 mL Round	TR15(85)		17 x 94 89	8,000 6,368
 15 mL Conical	TR15c(85)		17 x 98 89.2	8,000 6,382		

* Radius : From the center of the rotor to the inner end of tube carrier.

Fixed Angle Rotors for Combi Series (4)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)										
A250-6  Hole angle : $\angle 25^\circ$ Max. Capacity : 6 x 250 mL Size (ø x H) : ø295.6 x 147.8 mm Max. height for tube fit : 132 mm Incl. a coupling bolt lid	Combi R515	 250mL Flat - 62 x 103 138.3 8,000 9,896	 100mL Round TR100(250)  44.2 x 93 124.5 8,000 8,908	 85mL Round TR85(250)  38.5 x 96 122.5 8,000 8,765	 50mL Conical (Skirt) TR50sc(250)  29.8 x 93 125 8,000 8,944	 50mL Conical TR50c(250)  29.8 x 98 119 8,000 8,515	 50mL Round TR50-2(250)  29.5 x 90 120 8,000 8,586	 30mL Round TR30-3(250)  26 x 85 132.5 8,000 9,481	 25mL Conical TR25c(250)  29.5 x 61.5 120 8,000 8,586	 15mL Conical TR15c-4 (250)  17.2 x 104.5 131 8,000 9,373	 15mL Round TR15-4(250)  17.5 x 103.5 133.5 8,000 9,552	 10mL Round TR10-7(250)  16 x 80 133.5 8,000 9,552	 5mL Round TR7-8(250)  13.5 x 60 135.5 8,000 9,695	 5mL Conical TR5c-4(250)  17.2 x 50 131 8,000 9,373	 1.5mL/2mL TR2.0-9(250)  11.1 x 39 135 8,000 9,660

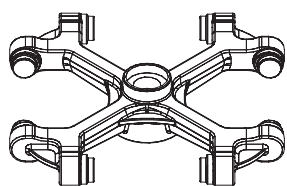
* Radius : From the center of the rotor to the inner end of tube carrier.

Multi-purpose Centrifuges

T04B / T05R / Combi 508 / Combi R515

Swing-out Rotors for Combi Series

S750-4



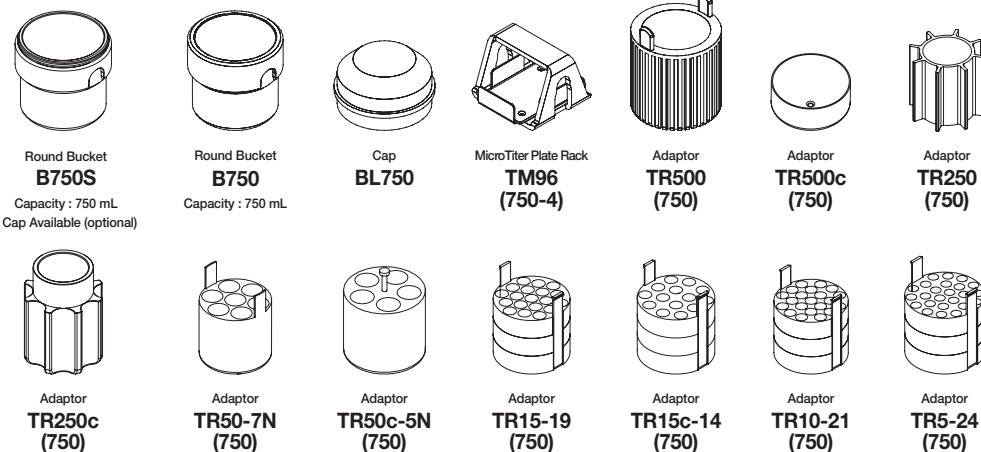
∠90°

Max. RPM : 4,000 rpm

Size (W x D x H)

: 277 x 277 x 55 mm

Bucket/Adaptor for S750-4

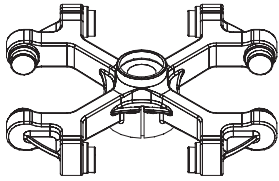


Buckets and Tube Racks of S750-4

Bucket	Required Adaptor	Tube Capacity Bottom Type	Tube per Adaptor / Rotor	Bore (Ø x L, mm)	Max. height for tube fit (mm)		Max. RPM (rpm) Max. RCF (xg)
					w/ cap	w/o cap	
B750S / B750 BL750 	-	750 mL Flat	1 / 4	99 x 103	142	158.5	4,000 3,515
	TR500(750)	500 mL Flat	1 / 4	75.5 x 98.7	137	151.9	4,000 3,476
	TR500c(750)	500 mL conical Conical	1 / 4	99 x 58	140	155.4	4,000 3,497
	TR250(750)	250 mL Flat	1 / 4	62.3 x 87	137	152.5	4,000 3,481
	TR250c(750)	250 mL conical Conical	1 / 4	61.5 x 124.4	137.5	148.6	4,000 3,470
	TR50-7N(750)	50 mL Round	7 / 28	29.2 x 97	116.7	123.8	4,000 3,497
	TR50c-5N(750)	50 mL conical Conical	5 / 20	29 x 91	122	126	4,000 3,470
	TR15-19(750)	15 mL Round	19 / 76	17.2 x 87	129.1	136.2	4,000 3,461
	TR15c-14(750)	15 mL conical Conical	14 / 56	17 x 89	132.7	153.8	4,000 3,461
	TR10-21(750)	10 mL Round	21 / 84	16 x 87	127.7	134.8	4,000 3,461
TR5-24(750)	3 mL / 5 mL Round	24 / 96	13.2 x 60 (3 mL) 13.2 x 87 (5 mL)	123.2	129.3	4,000 3,443	
TM96(750-4) Radius : 163.5 mm MTP holder size (w x d x L, mm) : 88 x 128.5 x 42 Max. height for tube fit : 60 mm		MTP	1 / 4	88 x 128.5 x 42	60		4,000 2,925

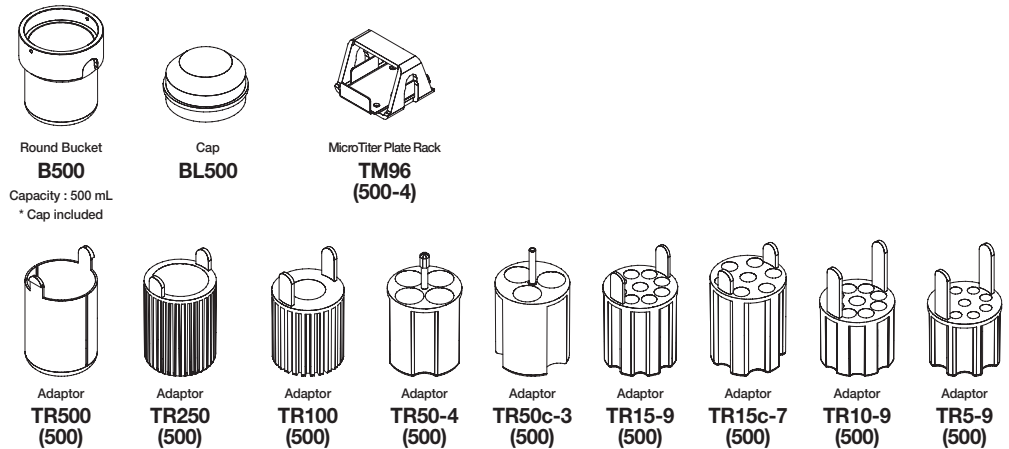
* Radius : From the center of the rotor to the inner end of tube carrier.

S500-4



∠90°
 Max. RPM : 4,500
 Size (W x D x H)
 : 262 x 262 x 55 mm

Bucket/Adaptor for S500-4



Buckets and Tube Racks of S500-4

Bucket	Required Adaptor	Tube Capacity Bottom Type	Tube per Adaptor / Rotor	Bore (Ø x L, mm)	Max. height for tube fit (mm)		Max. RPM (rpm) Max. RCF (xg)	
					w/ cap	w/o cap	R515	508
 Radius : 194 mm Bucket bore (ø x L, mm) : 80 x 111 Max. height for tube fit : 144mm (w/ cap), 154 mm (w/o cap) Incl. a cap Combi R515 Max. RPM : 4,500 Max. RCF : 4,347 xg Combi 508 Max. RPM : 4,000 Max. RCF : 3,435 xg	TR500(500)	500 mL Flat	1 / 4	73 x 125	132.6	144.1	4,500 4,392	4,000 3,470
	TR250(500)	250 mL Flat	1 / 4	62 x 100	135.5	147.1	4,500 4,290	4,000 3,390
	TR100(500)	100 mL (85 mL) Round	1 / 4	38.5 x 84.5	139.5	151.4	4,500 4,290	4,000 3,390
	TR50-4(500)	50 mL Round	4 / 16	29.5 x 85.5	129.5	141.1	4,500 4,290	4,000 3,390
	TR50c-3(500)	50 mL Conical	3 / 12	30 x 90	131.5	143.1	4,500 4,302	4,000 3,399
	TR15-9(500)	15 mL Round	9 / 36	16.5 x 85	135.6	153.2	4,500 4,290	4,000 3,390
	TR15c-7(500)	15 mL Conical	7 / 28	17 x 95.5	135.5	154	4,500 4,313	4,000 3,408
	TR10-9(500)	10 mL Round	9 / 36	17 x 64	134.3	151.7	4,500 4,256	4,000 3,363
	TR5-9(500)	5 mL Round	9 / 36	13 x 64	136.3	151.6	4,500 4,256	4,000 3,363
TM96(500-4)	MTP		1 / 4	87 x 128.5	55		4,000 2,755	

* Radius : From the center of the rotor to the inner end of tube carrier.