

Super speed (High Speed) Centrifuges

Supra R12 / Supra R17 / Supra R22 / Supra R30 / Ultra 5.0

Super Speed Centrifuges

Supra R12

- High speed performance with high capacity
- Process up to 6 x 1000 mL
- Performance up to 12,000 rpm (22,000 xg) with 6 x 250 mL
- Wide ranges of acceleration and deceleration (10 / 10 ramps) provide excellent separations.
- Automatic rotor recognition and imbalance detection for safety operation
- Simplified operation with intuitive controls and easy-to-read displays
- Smooth operation with motorized lid opening and closure
- Excellent temperature control
- Saves up to 100 programs
- Password lock function



A1000-6

A500-6

A250-6

Technical Specifications

		Supra R12	Supra R17	Supra R22	Supra R30
Speed	Max. RPM(Fixed angle)	12,000 rpm	17,000 rpm	22,000 rpm	30,000 rpm
	Max. RCF(Fixed angle)	22,625 xg	31,050 xg	52,001 xg	99,513 xg
Max. capacity(Fixed angle)		6 x 1,000 mL	6 x 250 mL	4 x 1,000 mL	4 x 1,000 mL
ACC/DEC ramps		10 / 10 steps	9 / 10 steps	10 / 10 steps	10 / 10 steps
Temperature	Temperature range	-10°C to 40°C	-20°C to 40°C	-10°C to 40°C	-10°C to 40°C
	Fast cool	-	Yes	-	-
Time control		< 100 hr, pulse, continuous	< 100 hr, pulse, continuous	< 100 hr, continuous	< 100 hr, continuous
Program memory		100	100	100	100
Noise level		≤ 65 dB	≤ 60 dB	≤ 65 dB	≤ 65 dB
Vacuum system		-	-	-	Yes
Imbalance cutoff / tracking		Yes / Yes	Yes / -	Yes / Yes	Yes / -
Rotor identification		Automatic	Automatic	Automatic	Manual
Dimension (W x D x H, mm)		668 x 800 x 891	473 x 611 x 840	668 x 800 x 891	710 x 1,000 x 1,260
Weight		230 kg	114 kg	230 kg	415 kg
Power requirement		3.0 kVA	2.9 kVA	5.1 kVA	5.2 kVA
Power input (V,Hz)		210 V ~ 240 V, 50 / 60Hz (110V optional),	220V, 50 / 60 Hz (110 V optional)	210 V~240 V, 50 / 60 Hz (110 V optional),	210 V ~ 240 V, 50 / 60Hz (110 V optional),
Cat. No.		SU-R12	SU-R17	SU-R22	SU-R30

Super Speed Centrifuges

Supra R17

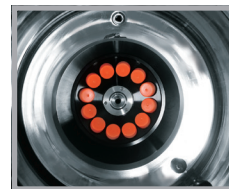
- Economical choice for daily high speed centrifuge usage
- Recommended to use conical 50 mL tubes at high speed (15,000 rpm / 22,000 xg)
- Performance up to 31,000 xg (17,000 rpm) with 6 x 50 mL rotor
- 10,000 rpm (15,000 xg) with 6 x 250 mL tubes
- Fast cool function for fast cooling
- Convenient rotor coupling and decoupling with one single action of rotor lid closure and opening (no tools required)
- Intuitive and ergonomic operation with numeric key buttons
- Selectable time counting control “at set speed” or “from starting”
- Imbalance detection for safety operation
- Compact and small foot print design



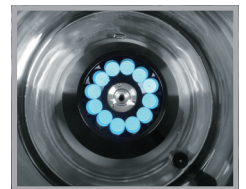
A250-6



A50c-6



A15-12



A15c-12

Super speed (High Speed) Centrifuges

Supra R12 / Supra R17 / Supra R22 / Supra R30 / Ultra 5.0

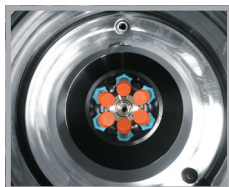
Super Speed Centrifuges

Supra R22

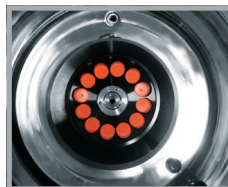
- Affordable high speed centrifuge for usage of 4 x 1,000 mL
- Capacity for 6 x 50ml up to 22,000 rpm (52,000 xg) and 4 x 1000 mL at 8,000 rpm (12,000 xg)
- Convenient rotor coupling and decoupling in one single action of rotor lid closure and opening (no tools required)
- Imbalance detection and tracking function
- Wide ranges of acceleration and deceleration (10 / 10 ramps) provide excellent separations
- Automatic rotor identification for safe operation
- Smoothly working, motorized lid opening and closure
- Excellent temperature control
- Password lock function



A1000-4



A50-6



A15S-12

Super Speed Centrifuges

Supra R30

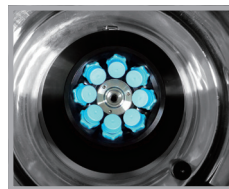
- Ideal for sub-cellular organelle separation
- Exceptional usage for 8 x 50 mL up to 30,000 rpm (almost 100,000 xg)
- Wide ranges of acceleration and deceleration (10/10 steps) provide excellent separations
- Convenient rotor coupling and decoupling complete with rotor lid closure and opening (no tools required)
- Maintenance free durable induction motor
- Soft motor shaft for stable rotation of heavy rotors
- Automatic half-atmosphere vacuum control at over 22,000 rpm
- Intuitive control panel with safety warning LEDs
- Imbalance detection and tracking function
- Robust and safe sliding lid



A1000-4



A250-6



A50-8

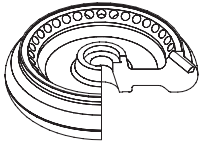















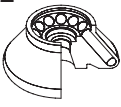



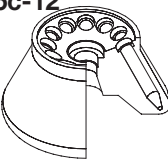

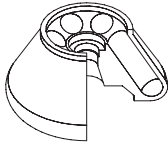























A50c-6

Super speed (High Speed) Centrifuges

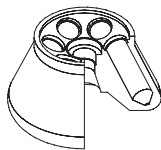
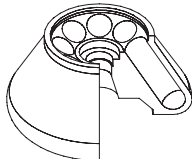
Supra R12 / Supra R17 / Supra R22 / Supra R30 / Ultra 5.0

Fixed Angle Rotors for Supra Series (1)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)
A2.0-36  Hole angle : ∠30° Max. Capacity : 36 x 1.5/2.0 mL Size (ø x H) : ø240 x 64 Max. height for tube fit : 49 mm Incl. a coupling bolt lid	Supra R30	 1.5/2.0 mL Micro-filter tube	-	11 x 37.5 115.7	20,000 51,741
		 0.5 mL	TR0.5(2) 	8 x 31 111	20,000 49,639
		 0.2 mL	TR0.2(2) 	6.5 x 23 100	20,000 44,720
	Supra R22	 1.5/2.0 mL Micro-filter tube	-	11 x 37.5 115.7	18,000 41,910
		 0.5 mL	TR0.5(2) 	8 x 31 111	18,000 40,208
		 0.2 mL	TR0.2(2) 	6.5 x 23 100	18,000 36,223
	Supra R17	 1.5/2.0 mL Micro-filter tube	-	11 x 37.5 115.7	15,000 29,104
		 0.5 mL	TR0.5(2) 	8 x 31 111	15,000 27,922
		 0.2 mL	TR0.2(2) 	6.5 x 23 100	15,000 25,155
A10-12  Hole angle : ∠36° Max. Capacity : 12 x 10 mL Size (ø x H) : ø179.9 x 82 Max. height for tube fit : 87.1 mm Incl. a coupling bolt lid	Supra R30	 10 mL Round	-	16.3 x 74.5 85.1	30,000 85,628
	Supra R22				22,000 46,049
	Supra R17				17,000 27,496
A15S-12  Hole angle : ∠25° 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	Supra R30	 15 mL Round	-	19 x 96 96.1	30,000 96,696
	Supra R22				22,000 52,001
	Supra R17				17,000 31,050
A15c-12  Hole angle : ∠25° 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	Supra R30	 15 mL Conical	-	17.2 X 110 99.4	17,000 32,116
	Supra R22				17,000 32,116
	Supra R17				15,000 25,004
A50-6  Hole angle : ∠30° Max. Capacity : 6 x 50 mL Size (ø x H) : ø200 x 109 mm Max. height for tube fit : 122.7 mm Incl. a coupling bolt lid	Supra R30	 50 mL Round	-	29.5 x 100 96.1	30,000 96,696
		 30 mL Round	TR30(50) 	26 x 83.8 90.4	30,000 90,960
		 25 mL Conical	TR25c(50) 	27.1 x 14.1 76	30,000 79,471
		 15 mL Round	TR15(50) 	17 x 94 89.9	30,000 90,457
		 15 mL Conical	TR15c(50) 	17.2 x 105 91	30,000 91,564
	Supra R22	 50 mL Round	-	29.5 x 100 96.1	22,000 52,001
		 30 mL Round	TR30(50) 	26 x 83.8 90.4	20,000 48,917
		 25 mL Conical	TR25c(50) 	27.1 x 14.1 76	22,000 41,125
		 15 mL Round	TR15(50) 	17 x 94 89.9	22,000 48,646
		 15 mL Conical	TR15c(50) 	17.2 x 105 91	22,000 49,241
	Supra R17	 50 mL Round	-	29.5 x 100 96.1	17,000 31,050
		 30 mL Round	TR30(50) 	26 x 83.8 90.4	17,000 29,208
		25 mL Conical	TR25c(50)	27.1 x 14.1 76	17,000 24,556
		15 mL Round	TR15(50)	17 x 94 89.9	17,000 29,047
		15 mL Conical	TR15c(50)	17.2 x 105 91	17,000 29,402

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

Fixed Angle Rotors for Supra Series (2)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)	
A50c-6 		50 mL Conical	-	29.8 x 108.6 91	17,000 29,402	
		Supra R30 / Supra R22	50 mL Round	TR50(50c)	29 x 11 88.5	17,000 28,595
			30 mL Round	TR30(50c)	26 x 83.8 87.5	17,000 28,271
			25mL Conical	TR25c(50c)	29 x 14.1 75.5	17,000 24,394
			15mL Conical	TR15c(50c)	17 x 94 86.2	17,000 27,851
			Supra R17	50 mL Conical	-	29.8 x 108.6 91
		50 mL Round		TR50(50c)	29 x 11 88.5	15,000 22,261
		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
A50-8 		50mL Round	-	29.5 x 100 98.9	30,000 99,513	
		Supra R30	30mL Round	TR30(50)	26 x 83.8 93.2	30,000 93,778
			25 mL Conical	TR25c(50)	27.1 x 14.1 78.8	30,000 79,289
			15 mL Round	TR15(50)	17 x 94 92.8	30,000 93,375
			15 mL Conical	TR15c(50)	17.2 x 105 93.9	30,000 94,482
			Supra R22	50 mL Round	-	29.5 x 100 98.9
		30 mL Round		TR30(50)	26 x 83.8 93.2	20,000 41,679
		25mL Conical		TR25c(50)	27.1 x 14.1 78.8	20,000 35,239
		15mL Round		TR15(50)	17 x 94 92.8	20,000 41,500
		15 mL Conical		TR15c(50)	17.2 x 105 93.9	20,000 41,992
		Supra R17	50 mL Round	-	29.5 x 100 98.9	15,000 24,878
			30mL Round	TR30(50)	26 x 83.8 93.2	15,000 23,444
			25mL 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

Hole angle : $\angle 23^\circ$
 Max. Capacity : 6 x 50 mL conical
 Size (ø x H) : ø205.7 x 119 mm
 Max. height for tube fit : 118.5 mm
Incl. a coupling bolt lid

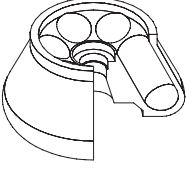







































Hole angle : $\angle 30^\circ$
 Max. Capacity : 8 x 50 mL
 Size (ø x H) : ø213 x 110.7 mm
 Max. height for tube fit : 110.7 mm
Incl. a coupling bolt lid

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

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Supra R12 / Supra R17 / Supra R22 / Supra R30 / Ultra 5.0

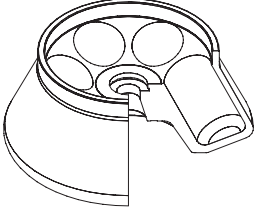


























Fixed Angle Rotors for Supra Series (3)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)
A85-6 	Supra R30	 85 mL Round	-	38.5 x 95 97.6	25,000 68,198
		 50 mL Conical	TR50c(85) 	29.5 x 98 93	25,000 64,984
		 50 mL Round	TR50(85) 	29.2 x 95 92.9	25,000 64,912
		 30 mL Round	TR30(85) 	26 x 85.4 91.6	25,000 64,006
		 25 mL Conical	TR25c(85) 	29.5 x 62.5 80.3	25,000 56,110
		 15 mL Round	TR15(85) 	17 x 94 89	25,000 62,189
		 15 mL Conical	TR15c(85) 	17 x 98 89.2	25,000 62,329
	Supra R22	 85 mL Round	-	38.5 x 95 97.6	20,000 43,647
		 50 mL Conical	TR50c(85) 	29.5 x 98 93	20,000 41,590
		 50 mL Round	TR50(85) 	29.2 x 95 92.9	20,000 41,545
		 30 mL Round	TR30(85) 	26 x 85.4 91.6	20,000 40,964
		 25 mL Conical	TR25c(85) 	29.5 x 62.5 80.3	20,000 35,910
		 15 mL Round	TR15(85) 	17 x 94 89	20,000 39,800
		 15 mL Conical	TR15c(85) 	17 x 98 89.2	20,000 39,890
	Supra R17	 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

Hole angle : $\angle 25^\circ$
 Max. Capacity : 6 x 85 mL
 Size (ø x H) : ø209.1 x 112 mm
 Max. height for tube fit : 122 mm
Incl. a coupling bolt lid

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

Fixed Angle Rotors for Supra 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 	Supra R30 / Supra R17	250mL Flat		62 x 103 138.3	10,000 15,462	
		100mL Round	TR100(250)		44.2 x 93 124.5	10,000 13,919
		85mL Round	TR85(250)		38.5 x 96 122.5	10,000 13,696
		50mL Conical (Skirt)	TR50sc(250)		29.8 x 93 125	10,000 13,975
		50mL Conical	TR50c(250)		29.8 x 98 119	10,000 13,304
		50mL Round	TR50-2(250)		29.5 x 90 120	10,000 13,416
		30mL Round	TR30-3(250)		26 x 85 132.5	10,000 14,814
		25mL Conical	TR25c(250)		29.5 x 61.5 120	10,000 13,416
		15mL Conical	TR15c-4(250)		17.2 x 104.5 131	10,000 14,646
		15mL Round	TR15-4(250)		17.5 x 103.5 133.5	10,000 14,925
		10mL Round	TR10-7(250)		16 x 80 133.5	10,000 14,925
		5mL Round	TR7-8(250)		13.5 x 60 135.5	10,000 15,149
		5mL Conical	TR5c-4(250)		17.2 x 50 131	10,000 14,646
		1.5mL/2mL	TR2.0-9(250)		11.1 x 39 135	10,000 15,093
	Supra R22 / Supra R12	250mL Flat			62 x 103 138.3	12,000 22,265
		100mL Round	TR100(250)		44.2 x 93 124.5	12,000 20,044
		85mL Round	TR85(250)		38.5 x 96 122.5	12,000 19,722
		50mL Conical (Skirt)	TR50sc(250)		29.8 x 93 125	12,000 20,124
		50mL Conical	TR50c(250)		29.8 x 98 119	12,000 19,158
		50mL Round	TR50-2(250)		29.5 x 90 120	12,000 19,319
		30mL Round	TR30-3(250)		26 x 85 132.5	12,000 21,331
		25mL Conical	TR25c(250)		29.5 x 61.5 120	12,000 19,319
		15mL Conical	TR15c-4(250)		17.2 x 104.5 131	12,000 21,090
		15mL Round	TR15-4(250)		17.5 x 103.5 133.5	12,000 21,492
		10mL Round	TR10-7(250)		16 x 80 133.5	12,000 21,492
		5mL Round	TR7-8(250)		13.5 x 60 135.5	12,000 21,814
5mL Conical	TR5c-4(250)		17.2 x 50 131	12,000 21,090		
1.5mL/2mL	TR2.0-9(250)		11.1 x 39 135	12,000 21,734		

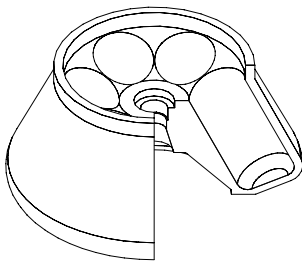









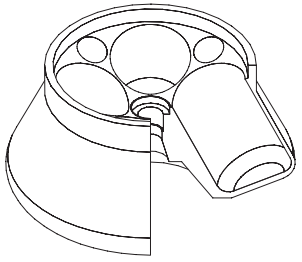










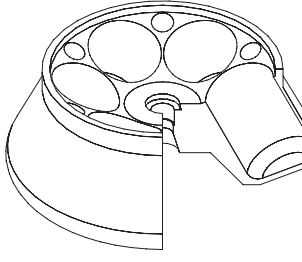





Hole angle : $\angle 25^\circ$
 Max. Capacity : 6 x 250 mL
 Size (ø x H) : ø295.6 x 147.8 mm
 Max. height for tube fit : 132 mm
Incl. a coupling bolt lid

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

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Fixed Angle Rotors for Supra Series (5)

Rotor	Adaptable Centrifuge	Tube Capacity Bottom Type	Required Adaptor	Bore Ø x L (mm) Radius (mm)	Max. RPM (rpm) Max. RCF (xg)
A500-6  Hole angle : $\angle 25^\circ$ Max. Capacity : 6 x 500 mL Size (ø x H) : ø336 x 179 mm Max. height for tube fit : 168.5 mm Incl. a coupling bolt lid	Supra R30	 500mL Flat	-	70 x 141 158.7	8,000 11,355
		 250mL Flat	TR250(500A) 	62 x 100 158.7	8,000 9,946
	Supra R22	 500mL Flat	-	70 x 141 158.7	9,000 14,372
		 250mL Flat	TR250(500A) 	62 x 100 158.7	9,000 142,588
	Supra R12	 500mL Flat	-	70 x 141 158.7	10,000 17,743
		 250mL Flat	TR250(500A) 	62 x 100 158.7	10,000 15,540
A1000-4  Hole angle : $\angle 25^\circ$ Max. Capacity : 4 x 1,000 mL Size (ø x H) : ø350 x 196 mm Max. height for tube fit : 184.8 mm Incl. a coupling bolt lid	Supra R30	 1000mL Flat	-	98 x 144 169.9	7,000 9,307
		 500mL Flat	TR500(1000) 	69 x 149 155.7	7,000 8,530
		 250mL Flat	TR250(1000) 	62 x 109 136.4	7,000 7,472
	Supra R22 / Supra R12	 1000mL Flat	-	98 x 144 169.9	8,000 12,157
		 500mL Flat	TR500(1000) 	69 x 149 155.7	8,000 11,141
		 250mL Flat	TR250(1000) 	62 x 109 136.4	8,000 9,760
A1000-6  Hole angle : $\angle 25^\circ$ Max. Capacity : 6 x 1,000 mL Size (ø x H) : ø408 x 188 mm Max. height for tube fit : 176.5 mm Incl. a coupling bolt lid	Supra R12	 1000mL Flat	-	98 x 144 200.1	7,000 10,962
		 500mL Flat	TR500(1000) 	69 x 149 185.9	7,000 10,184
		 250mL Flat	TR250(1000) 	62 x 109 166.6	7,000 9,127

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