

# Centrifuge overview

## Mini, micro, small bench and general purpose

Thermo Scientific™ Centrifuges provide optimal speed and quality to fit every application.



MINI, MICRO AND SMALL BENCH

Model name	mySPIN 6 Centrifuge	mySPIN 12 Centrifuge	Sorvall Legend Micro 17/17R, MicroCL 17/17R, Pico/ Fresco 17 Centrifuges	Sorvall Legend Micro 21/21R, MicroCL 21/21R, Pico/ Fresco 21 Centrifuges	Medifuge Centrifuge	Sorvall ST8, Megafuge 8, SL 8 Centrifuges	Sorvall ST8R, Megafuge 8R, SL 8R Centrifuges	Sorvall ST8FR Centrifuge
<b>Fixed angle rotors</b>								
Maximum g-force	2,000	9,800	17,000	21,100	3,114	24,328	30,279	30,279
Maximum RPM	6,000	12,500	13,300	14,800	4,900	16,000	17,850	17,850
Maximum capacity	6 x 2.0 mL	12 x 2.0 mL	24 x 1.5 mL	24 x 1.5 mL	8 x 15 mL	6 x 50 mL	6 x 50 mL	6 x 50 mL
<b>Swinging bucket rotors</b>								
Maximum g-force	-	-	-	-	3,490	3,260	3,260	3,260
Maximum RPM	-	-	-	-	4,900	4,500	4,500	4,500
Maximum capacity	-	-	-	-	8 x 10 mL	4 x 145 mL	4 x 145 mL	4 x 145 mL
<b>Microplate</b>								
Maximum g-force	-	-	-	-	-	2,576	2,576	2,576
Maximum RPM	-	-	-	-	-	4,400	4,400	4,400
Maximum capacity	-	-	-	-	-	2 x 2	2 x 2	2 x 2
<b>Centrifuge details</b>								
Rotor options	2	2	7	7	2	13	13	13
Rotor locking system	Tool-free	Tool-free	Tool	Tool	Knob	Auto-Lock	Auto-Lock	Auto-Lock
Refrigeration	-	-	17R: -9°C to 40°C	21R: -9°C to 40°C	-	-	-10°C to 40°C	-10°C to 40°C
Display	-	LCD	LCD	LCD	LED	LED	LED	LED
No. of programs	-	-	-	-	4	4	3 direct program buttons, plus 96 additional programs accessible via folder	
Dimensions (H x W x D)	104 x 128 x 153 mm (4.1 x 5 x 6 in)	114 x 171 x 203 mm (4.4 x 6.7 x 8 in)	17/21/Pico: 225 x 243 x 352 mm (8.86 x 9.56 x 13.8 in) 17R/21R/Fresco: 330 x 295 x 445 mm (12.9 x 11.6 x 17.5 in)		240 x 325 x 450 mm (9.5 x 12.8 x 17.7 in)	310 x 370 x 480 mm (12.2 x 4.6 x 18.9 in)	320 x 460 x 670 mm (12.6 x 18.1 x 26.4 in)	790-840 x 470 x 520 mm (30.7-32.7 x 18.3 x 20.5 in)



GENERAL PURPOSE

Model name	Sorvall X1/X1R Pro, Multifuge X1/ X1R Pro Centrifuges	Sorvall ST1/ST1R Plus, Megafuge ST1/ST1R Plus, SL1/SL1R Plus Centrifuges	Sorvall X4/X4R Pro, Multifuge X4/X4R Pro Centrifuges	Sorvall ST4/ST4R Plus, Megafuge ST4/ST4R Plus, SL4/SL4R Plus Centrifuges	Sorvall X4F/X4FR Pro, Multifuge X4F/X4FR Pro Centrifuges	Sorvall ST4F/ST4FR Plus, Megafuge ST4F/ST4FR Plus, SL4F/SL4FR Plus Centrifuges
<b>Fixed angle rotors</b>						
Maximum g-force	25,830	25,830	25,830	25,830	25,830	25,830
Maximum RPM	15,200	15,200	15,200	15,200	15,200	15,200
Maximum capacity	6 x 100 mL	6 x 100 mL	6 x 250 mL	6 x 100 mL	6 x 250 mL	6 x 100 mL
<b>Swinging bucket rotors</b>						
Maximum g-force	7,188	5,580	7,197	7,197	7,197	7,197
Maximum RPM	6,300	5,500	6,100	6,100	6,100	6,100
Maximum capacity	4 x 400 mL	4 x 400 mL	4 x 1,000 mL	4 x 1,000 mL	4 x 1,000 mL	4 x 1,000 mL
<b>Microplate</b>						
Maximum g-force	4,297	4,297	7,197	7,197	7,197	7,197
Maximum RPM	4,700	4,700	6,100	6,100	6,100	6,100
Maximum capacity	2 x 5	2 x 5	4 x 6	4 x 6	4 x 6	4 x 6
<b>Centrifuge details</b>						
Rotor options	17	15	18	13	18	13
Rotor locking system	Auto-Lock	Auto-Lock	Auto-Lock	Auto-Lock	Auto-Lock	Auto-Lock
Refrigeration	X1R: -10°C to 40°C	ST1R: -10°C to 40°C	X4R: -10°C to 40°C	ST4R: -10°C to 40°C	X4FR: -10°C to 40°C	ST4FR: -10°C to 40°C
Display	Touchscreen	LED	Touchscreen	LED	Touchscreen	LED
No. of programs	100	6	100	6	100	6
Dimensions (H x W x D)	X1: 362 x 445 x 660 mm (14.3 x 17.5 x 26 in) X1R: 361 x 625 x 660 mm (14.2 x 24.6 x 26 in)	ST1: 362 x 445 x 660 mm (14.3 x 17.5 x 26 in) ST1R: 361 x 625 x 660 mm (14.2 x 24.6 x 26 in)	X4: 362 x 566 x 690 mm (14.3 x 22.3 x 27.2 in) X4R: 361 x 746 x 690 mm (14.2 x 29.4 x 27.2 in)	ST4: 362 x 566 x 690 mm (14.3 x 22.3 x 27.2 in) ST4R: 361 x 746 x 690 mm (14.2 x 29.4 x 27.2 in)	X4F: 835 x 566 x 690 mm (32.8 x 22.3 x 27.2 in) X4FR: 835 x 566 x 690 mm (32.8 x 22.3 x 27.2 in)	ST4F: 835 x 566 x 690 mm (32.8 x 22.3 x 27.2 in) ST4FR: 835 x 566 x 690 mm (32.8 x 22.3 x 27.2 in)

# Centrifuge overview

## Large capacity, superspeed and ultraspeed



LARGE CAPACITY

Model name	Sorvall BP 8, Cryofuge 8 Centrifuges	Sorvall BP 16, Cryofuge 16 Centrifuges	Sorvall BIOS A Centrifuge	Sorvall BIOS 16 Centrifuge
<b>Fixed angle rotors</b>				
Maximum g-force	-	-	12,000	-
Maximum RPM	-	-	6,250	-
Maximum capacity	-	-	10 x 1000 mL	-
<b>Swinging bucket rotors</b>				
Maximum g-force	7,295	7,187	-	8,500
Maximum RPM	5,000	4,700	-	5,400
Maximum capacity	8 x 550 mL blood bags	16 x 550 mL blood bags	-	8 x CentriPAK BPCs/ 16 L
<b>Microplate</b>				
Maximum g-force	-	7,187	-	7,187
Maximum RPM	-	4,700	-	4,700
Maximum capacity	-	40	-	40
<b>Centrifuge details</b>				
Rotor options	2	2	1	6
Rotor locking system	std	std	std	std
Refrigeration	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C
Display	Touchscreen	Touchscreen	Touchscreen	Touchscreen
No. of programs	120	120	120	120
Dimensions (H x W x D)	1,015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)	1,015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)	1,015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)	1,015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)

SUPERSPEED

Model name	Sorvall LYNX 6000 Centrifuge	Sorvall LYNX 4000 Centrifuge
<b>Fixed angle rotors</b>		
Maximum g-force	100,605	68,905
Maximum RPM	29,000	24,000
Maximum capacity	6 x 1000 mL	4 x 1000 mL
<b>Swinging bucket rotors</b>		
Maximum g-force	30,314	30,314
Maximum RPM	13,100	13,100
Maximum capacity	4 x 1000 mL	4 x 1000 mL
<b>Microplate</b>		
Maximum g-force	7,068	7,068
Maximum RPM	5,500	5,500
Maximum capacity	4 x 6	4 x 6
<b>Centrifuge details</b>		
Rotor options	18	16
Rotor locking system	Auto-Lock	Auto-Lock
Refrigeration	-20°C to +40°C	-20°C to +40°C
Display	Touchscreen	Touchscreen
No. of programs	120	120
Dimensions (H x W x D)	930 x 700 x 805 mm (36.6 x 27.6 x 31.7 in)	930 x 700 x 805 mm (36.6 x 27.6 x 31.7 in)



ULTRASPEED

Model name	Sorvall MX120 Plus Centrifuge	Sorvall MX150 Plus Centrifuge	Sorvall MTX150 Centrifuge	Sorvall WX 100+ Centrifuge	Sorvall WX 90+ Centrifuge	Sorvall WX 80+ Centrifuge
<b>Fixed angle rotors</b>						
Maximum g-force	770,460	1,048,680	1,048,680	802,010	692,000	602,000
Maximum RPM	120,000	150,000	150,000	100,000	90,000	80,000
Maximum capacity	6 x 30 mL	6 x 30 mL	6x30 mL	6 x 250 mL	6 x 250 mL	6 x 250 mL
<b>Swinging bucket rotors</b>						
Maximum g-force	258,830	258,830	258,830	488,580	488,580	488,580
Maximum RPM	55,000	55,000	55,000	60,000	60,000	60,000
Maximum capacity	4 x 7 mL	4 x 7 mL	4 x 7 mL	6 x 36 mL	6 x 36 mL	6 x 36 mL
<b>Microplate</b>						
Maximum g-force	-	-	-	-	-	-
Maximum RPM	-	-	-	-	-	-
Maximum capacity	-	-	-	-	-	-
<b>Centrifuge details</b>						
Rotor options	18	18	18	36	36	36
Rotor locking system	Self-locking	Self-locking	Self-locking	Self-locking	Self-locking	Self-locking
Refrigeration	0°C to +40°C	0°C to +40°C	0°C to +40°C	0°C to +40°C	0°C to +40°C	0°C to +40°C
Display	Touchscreen	Touchscreen	Touchscreen	Touchscreen	Touchscreen	Touchscreen
No. of programs	20	20	20	1,000	1,000	1,000
Dimensions (H x W x D)	910 x 440 x 520 mm (35.8 x 17.3 x 20.5 in)	910 x 440 x 520 mm (35.8 x 17.3 x 20.5 in)	480 x 590 x 582 mm (16.1 x 23.2 x 22.9 in)	880 x 790 x 690 mm (34.6 x 31.1 x 27.2 in)	880 x 790 x 690 mm (34.6 x 31.1 x 27.2 in)	880 x 790 x 690 mm (34.6 x 31.1 x 27.2 in)

Learn more at [thermofisher.com/centrifuges](https://thermofisher.com/centrifuges)

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