

Centrifuge overview

Mini, micro, compact and general purpose

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

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MINI, MICRO AND COMPACT

| Model name | mySPIN 6 Centrifuge | mySPIN 12 Centrifuge | Sorvall Legend Micro 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 |
|-------------------------------|-------------------------------------|---------------------------------------|--|--|---|---|---|---|
| Fixed angle rotors | | | | | | | | |
| 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 |
| Swinging bucket rotors | | | | | | | | |
| 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 |
| Microplate | | | | | | | | |
| 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 |
| Centrifuge details | | | | | | | | |
| 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 |
|-------------------------------|---|---|---|---|---|---|
| Fixed angle rotors | | | | | | |
| 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 |
| Swinging bucket rotors | | | | | | |
| 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 |
| Microplate | | | | | | |
| 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 |
| Centrifuge details | | | | | | |
| 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 | Cryofuge 8 Centrifuge with GreenCool Technology | Cryofuge 16 Centrifuge with GreenCool Technology | BIOS A Centrifuge with GreenCool Technology | BIOS 16 Centrifuge with GreenCool Technology |
|-------------------------------|---|--|--|--|
| Fixed angle rotors | | | | |
| Maximum g-force | - | - | 12,000 | - |
| Maximum RPM | - | - | 6,250 | - |
| Maximum capacity | - | - | 10 x 1,000 mL | - |
| Swinging bucket rotors | | | | |
| 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 or 8 x 2 L bottles |
| Microplate | | | | |
| Maximum g-force | - | 7,187 | - | 7,187 |
| Maximum RPM | - | 4,700 | - | 4,700 |
| Maximum capacity | - | 40 | - | 40 |
| Centrifuge details | | | | |
| Rotor options | 2 | 2 | 1 | 8 |
| 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 | LYNX 6000 Centrifuge with GreenCool Technology | LYNX 4000 Centrifuge with GreenCool Technology |
|-------------------------------|--|--|
| Fixed angle rotors | | |
| Maximum g-force | 100,605 | 68,905 |
| Maximum RPM | 29,000 | 24,000 |
| Maximum capacity | 6 x 1,000 mL | 4 x 1,000 mL |
| Swinging bucket rotors | | |
| Maximum g-force | 30,314 | 30,314 |
| Maximum RPM | 13,100 | 13,100 |
| Maximum capacity | 4 x 1,000 mL | 4 x 1,000 mL |
| Microplate | | |
| Maximum g-force | 7,068 | 7,068 |
| Maximum RPM | 5,500 | 5,500 |
| Maximum capacity | 4 x 6 | 4 x 6 |
| Centrifuge details | | |
| Rotor options | 19 | 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 | Sorvall CC40NX Centrifuges |
|-------------------------------|--|--|--|--|--|--|--|
| Fixed angle rotors | | | | | | | |
| Maximum g-force | 770,460 | 1,048,680 | 1,048,680 | 802,010 | 692,000 | 602,000 | Scalable, continuous-flow ultracentrifuge with up to 118,000 x g/40,000 rpm. |
| 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 | |
| Swinging bucket rotors | | | | | | | |
| Maximum g-force | 258,830 | 258,830 | 258,830 | 488,580 | 488,580 | 488,580 | Up to 8 L batch, or 200 L in continuous flow mode. |
| 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 | |
| Microplate | | | | | | | |
| Maximum g-force | - | - | - | - | - | - | Up to 8 L batch, or 200 L in continuous flow mode. |
| Maximum RPM | - | - | - | - | - | - | |
| Maximum capacity | - | - | - | - | - | - | |
| Centrifuge details | | | | | | | |
| Rotor options | 18 | 18 | 18 | 36 | 36 | 36 | Process control and sample integrity. Supports GMP compliance. |
| Rotor locking system | Self-locking | Self-locking | Self-locking | Self-locking | Self-locking | Self-locking | |
| Refrigeration | 0°C to +40°C | |
| Display | Touchscreen | Touchscreen | Touchscreen | Touchscreen | Touchscreen | Touchscreen | Process control and sample integrity. Supports GMP compliance. |
| 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

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