

Centrifugation solutions from Avantor

01. MICROCENTRIFUGES

02. BENCH CENTRIFUGES

03. SPECIAL CENTRIFUGES



Centrifugation solutions from Avantor

Centrifugation: It`s not only a workflow step...

... it`s an own world with its issues, problems and Solutions! What we offer is not less then this:

Choice - covering almost all common applications in (Bio-)Pharma, Life Sciences and Academia, and many more Industries

Performance – market leading customer benefits: great features; performance and reliability with every turn

Value for money – Quality and long lasting at a affordable price- what we lab people need more?



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MICROCENTRIFUGE, MINISTAR / MINISTAR BLUELINE

These personal centrifuges have a fixed speed of 6000 min⁻¹/2000×g, and are designed for applications requiring relatively low g-forces, such as microfiltration, cell separation and quick spin downs from the walls of tubes.

- Quick-release rotors: No tools are required to exchange the rotors or attach them to the motor shaft
- Easy to operate: Close the lid of the centrifuge to start a run; press and release the tab on lid to stop

The tube rotor spins up to eight individual 1,5/2,0 ml plastic microcentrifuge tubes. It will also accept 0,5 and 0,4 ml tubes with the supplied adapters. The additional PCR rotor is designed to centrifuge four 8×0,2 ml PCR strip tubes. It will also accept up to 32 individual 0,2 ml tubes.

Supplied with 8×1,5/2,0 ml rotor, 4× (8×0,2 ml) strip tube rotor, 8 adapters for 0,4 ml tubes and 8 adapters for 0,5 ml tubes.

Model	MiniStar	MiniStar blueLine
Max. capacity	8×1,5/2,0 ml tubes or 4×(8×0,2 ml) tube strips	
Max. speed (min ⁻¹)	6000	
Max. RCF (×g)	2000	
Acceleration/deceleration time	5/1,5 s	
Noise level	56 dB(A)	
Power consumption	5 W	
W×D×H (mm)	132×132×112	
Weight (kg)	0,55	

Description	Pk	Cat. No.
Microcentrifuge MiniStar, white, with rotors and adapters, EU-plug	1	521-2161
Microcentrifuge MiniStar, white, with rotors and adapters, UK-plug	1	521-2162
Microcentrifuge MiniStar, white, with rotors and adapters, CH-plug	1	521-2163
Microcentrifuge MiniStar blueLine, blue, with rotors and adapters, EU-plug	1	521-2319
Microcentrifuge MiniStar blueLine, blue, with rotors and adapters, UK-plug	1	521-2320
Microcentrifuge MiniStar blueLine, blue, with rotors and adapters, CH-plug	1	521-2321



MICROCENTRIFUGE, MICRO STAR 12

Safe and easy to use centrifuge, delivering optimum performance in a compact unit.

- Compact design with small footprint
- Rapid acceleration and deceleration together with quiet operation characteristics
- Alarms for over-speed and over-heat
- Autoclavable rotor for 12×1,5/2,0 ml tubes includes biosafety rotor lid

All operating parameters, including rpm, RCF and remaining time, are set and displayed digitally. It has an automatic lid release, pulse-spin function for fast, convenient quick spins, and a unique internal airflow design to reduce the heating up of samples.

Supplied with fixed angle microtube rotor and adapters for 0,2 ml PCR tubes (pack of 12).

Model	Micro Star 12
Max. capacity	12×1,5/2,0 ml
Max. speed (min ⁻¹)	13500
Max. RCF (×g)	12300
Timer	1 - 30 min
Power supply	230 V / 50 - 60 Hz
W×D×H (mm)	208×245×145
Weight (kg)	4,4

Description	Pk	Cat. No.
Microcentrifuge Micro Star 12	1	521-1651
Accessories		
Rotor for 4× (8×0,2 ml) PCR strips, max. 6000 RPM	1	521-1652
Rotor for 10×1,8 ml cryotubes, max. RCF 12300 ×g	1	521-2650
Adapters for 0,2 ml PCR tubes	12	521-1653
Adapters for 0,5 ml microtubes	12	521-1654



Micro Star 21R



Micro Star 21

MICROCENTRIFUGES, VENTILATED/REFRIGERATED, MICRO STAR 21/21R

Micro Star 21 and 21R microcentrifuges combine power, versatility and convenience in a safe, compact, easy to use laboratory instrument. Both the ventilated Micro Star 21 and the refrigerated Micro Star 21R are excellent choice for routine sample preparation process and for high-end research applications. The special biocontainment rotor lid, for one-click rotor opening and closing, shortens retrieval time compared to screw on lids.

- Quiet and powerful performance up to 21100×g
- ClickSeal® biocontainment rotor lid keeps the user and samples safe
- Easy operation; intuitive controls and bright, easy to read displays
- Separate short-spin key for quick centrifugation

Supplied with 24-place rotor for 1,5/2,0 ml tubes, aerosol-tight rotor lid, two power cords (EU and UK) and USB stick with manuals.

Model	Micro Star 21R	Micro Star 21
Max. capacity		24×2 ml
Max. speed (min ⁻¹)		14800
Max. RCF (×g)		21100
Speed range		300 - 14800 min ⁻¹
Temperature	-9...+40 °C	
Acceleration/braking time		12/13
Timer	1 – 99 min (in increments of 1 min) + Hold mode	
Noise level	≤50	≤56
Electrical	230 V ±10%, 50 / 60 Hz, 2,2 A	230 V ±10%, 50 / 60 Hz, 1,7 A
Power consumption	370 W	230 W
W×D×H (mm)	292×440×330	240×350×230
Weight (kg)	28	10,5

Description	Pk	Cat. No.
Refrigerated centrifuge		
Microcentrifuge, refrigerated, Micro Star 21R	1	521-2657
Non refrigerated centrifuge		
Microcentrifuge, ventilated, Micro Star 21	1	521-2656
Accessories		
Adapter, for 24×0,25 ml microtubes, for microlitre rotor (24×1,5 ml)	1 SET	521-1656
Adapter, for 24×0,2 ml PCR tubes, for microlitre rotor (24×1,5 ml)	1 SET	521-1655
Adapter, for 24×0,5/0,6 ml tubes, for microlitre rotor (24×1,5 ml)	1 SET	521-1657
Components for fixed angle rotors		
Replacement O-rings for ClickSeal™ lid	1 KIT	521-1939
Accessories		
Replacement ClickSeal™ biocontainment lid for rotors	1	521-1103



521-2153



521-1104

ROTOR COMPATIBILITY - VWR MICRO STAR 21/21R

The VWR Micro Star 21 and 21R microcentrifuges are fully compatible with the following Thermo Scientific microcentrifuge rotors and accessories.

Description	Max. speed (min ⁻¹)	Max. RCF (xg)	Cat. No.
Fixed-angle rotor, 10x5 ml, with ClickSeal biocontainment lid	14800	20326	521-2153
Fixed-angle rotor, 24x1,5/2,0 ml, with ClickSeal biocontainment lid	14800	21100	521-1105
Fixed-angle rotor, dual row, 18x2/0,5 ml, with screw-on lid	14800	20800	521-1104
Rotor, 36x0,5 ml, with screw-on lid	14800	19300	521-1106
PCR rotor, 8x8 tubes, with screw-on lid	14800	17100	521-1109
PCR rotor, 4x8 sample strips, with ClickSeal biocontainment lid	14800	16200	521-1107
Adapters			
Adapters, 0,5/0,6 ml			521-1657
Adapters, 0,2 ml			521-1656

MICROCENTRIFUGE, HIGH SPEED, UNIVERSAL, VENTILATED, MICRO STAR 30, VWR®

The compact Micro Star 30 ventilated centrifuge is an economic, versatile, easy to use cross-over centrifuge which combines the features of a high speed microcentrifuge and a multipurpose centrifuge. This quiet and smooth running centrifuge accommodates rotors for microtubes (24x1,5/2,0 ml), microplates and 15/50 ml conical tubes as well as a 16-place rotor for 5 ml tubes and a swing bucket rotor for six blood collection tubes. Ideal for use in life science, biotechnology laboratories and clinical laboratories.

- Max. speed: 31150 xg (18000 rpm) for extremely fast separation results
- Timer from 10 seconds to 99,5 minutes or continuous
- Saves up to 100 user-defined programs
- Automatic rotor recognition, imbalance detection and Fast-Spin function
- Great flexibility with seven rotor options

The Micro Star 30 is available without rotor for free rotor selection, or as a package which includes high speed microtube rotor RA 24/2 with aerosol-tight rotor lid.



Micro Star 30

Model	Micro Star 30 (521-2752)	Micro Star 30 (521-2753)
Max. capacity	24x2 ml	6x50 ml (with RA 6/50 rotor)
Max. speed (min ⁻¹)	18000	18000 (with RA24/2 rotor)
Max. RCF (xg)	31150	31150 (with RA24/2 rotor)
Speed range	200 - 18000 min ⁻¹	
Acceleration/braking ramps	Levels from 0 to 9/ levels from 0 to 9 (0 - no braking) s	
Programs	100	
Timer	10 s - 99,5 min or continuous (hold)	
Noise level	≤62 dB(A) at maximum speed	
Electrical	230 V ±10%, 50 / 60 Hz, 2 A	
Power consumption	450 W	
WxDxH (mm)	360x430x288	
Weight (kg)	23,5	22,5

Description	Pk	Cat. No.
Centrifuge Micro Star 30 with aerosol-tight rotor RA 24/2	1	521-2752
Centrifuge Micro Star 30 without rotor	1	521-2753
Accessories		
Angle rotor RA 24/2 with aerosol tight lid, max. RCF 31150 xg, max. rpm 18000, max. capacity 24x 2 ml	1	521-2576
Angle rotor RA 16/5 with aerosol tight lid, max. RCF 21000 xg, max. rpm 14000, max. capacity 16x 5 ml	1	521-2577
Angle rotor RA 8/15, max. RCF 4400xg, max. RPM 6000, max. capacity 8x15 ml conical, 17x120 mm	1	521-3377
Angle rotor RA 6/50, max. RCF 4400xg, max. RPM 6000 max. capacity 6x50 ml conical	1	521-3380
Swing rotor for microplates with carriers, max. RCF 2200 xg, max. rpm 5000 max. capacity 4 microtitre or 2 deep well plates (max. height: 31,5 mm)	1	521-2586
Swing rotor RS 6/12 with buckets, max. RCF 2500 xg, max. rpm 4400, max. capacity 6x 12 ml, 17x105 mm	1	521-2587
Hematocrit rotor RH 24 with transparent plastic lid and integrated scale for reading and evaluation, max. RCF 20160xg, max. RPM 14000, max. capacity 24 x capillaries	1	521-3373
Adapter 15 ml (set of 6), for angle rotor RA 6/50, max. RCF 4400 xg	6	521-2585
Adapter 5 ml blood tubes, 13x75 mm	1	521-3379
Spare shields 50 ml conical, 17x120 mm (set of 6), for angle rotor RA 6/50	6	521-2584
Spare shields 15 ml conical, 17x120 mm (set of 8), for angle rotor RA 8/15	8	521-2579



Micro Star 30R

MICROCENTRIFUGE, HIGH SPEED, UNIVERSAL, REFRIGERATED, MICRO STAR 30R

The compact Micro Star 30R refrigerated centrifuge is an economic, versatile and easy to use cross-over centrifuge which combines the features of a high speed microcentrifuge and a multipurpose centrifuge. This quiet and smooth running centrifuge accommodates rotors for microtubes (24x1,5/2,0 ml), microplates and 15/50 ml conical tubes as well as a 16-place rotor for 5 ml tubes and a swing-bucket rotor for six blood collection tubes. Ideal for use in life science, biotechnology laboratories and clinical laboratories.

- Temperature range from -9 to +40 °C with pre-cooling function
- Max. speed: 31150 xg (18000 min⁻¹)
- Timer from 10 seconds to 99,5 minutes or continuous
- Saves up to 100 user-defined programs
- Automatic rotor recognition, imbalance detection and quick-spin function
- Refrigerant with low GWP and CO₂ emissions according to EU standards valid from 2020
- Six different rotors available

The Micro Star 30R is available without rotor for free rotor selection or as a package which includes microtube rotor RA 24/2 with aerosol-tight rotor lid.

Model	Micro Star 30R (521-2574)	Micro Star 30R (521-2575)
Max. capacity	24x2 ml	6x50 ml (with RA 6/50 rotor)
Max. speed (min ⁻¹)	18000	18000 (with RA24/2 rotor)
Max. RCF (xg)	31150	31150 (with RA24/2 rotor)
Temperature	-9...+40 °C	
Timer	10 s - 99,5 min or continuous	
Noise level	<56 dB(A)	
Power consumption	700 W	
WxDxH (mm)	360x675x288	
Weight (kg)	51	50

Description	Pk	Cat. No.
Microcentrifuge, refrigerated, Micro Star 30R with aerosol-tight rotor RA 24/2	1	521-2574
Microcentrifuge, refrigerated, Micro Star 30R without rotor	1	521-2575
Accessories		
Angle rotor RA 24/2 with aerosol tight lid, max. RCF 31150 xg, max. rpm 18000, max. capacity 24x 2 ml	1	521-2576
Angle rotor RA 16/5 with aerosol tight lid, max. RCF 21000 xg, max. rpm 14000, max. capacity 16x 5 ml	1	521-2577
Angle rotor RA 8/15, max. RCF 4400xg, max. RPM 6000, max. capacity 8x15 ml conical, 17x120 mm	1	521-3377
Angle rotor RA 6/50, max. RCF 4400xg, max. RPM 6000 max. capacity 6x50 ml conical	1	521-3380
Swing rotor for microplates with carriers, max. RCF 2200 xg, max. rpm 5000 max. capacity 4 microtitre or 2 deep well plates (max. height: 31,5 mm)	1	521-2586
Swing rotor RS 6/12 with buckets, max. RCF 2500 xg, max. rpm 4400, max. capacity 6x 12 ml, 17x105 mm	1	521-2587
Adapter 15 ml (set of 6), for angle rotor RA 6/50, max. RCF 4400 xg	6	521-2585
Adapter 5 ml blood tubes, 13x75 mm	1	521-3379
Spare shields 50 ml conical, 17x120 mm (set of 6), for angle rotor RA 6/50	6	521-2584
Spare shields 15 ml conical, 17x120 mm (set of 8), for angle rotor RA 8/15	8	521-2579



Mega Star 600



Mega Star 600R

CENTRIFUGES, BENCH TOP, VENTILATED/REFRIGERATED, MEGA STAR 600 / 600R

These small bench top centrifuges are ideal for research and clinical applications in pharmaceutical and biotechnical industries, as well as for academic research. They offer good capacity in a compact design with a smart and simple interface.

- Auto-Lock® III rotor system: Tool-free rotor exchange system enables quick rotor exchange; with just the push of a button users can quickly change rotors and easily access the rotor chamber for cleaning
- Aerosol-tight ClickSeal® bucket caps and rotor lid sealing system: Glove friendly one handed open/close capability
- Time saving pulse function for short runs
- Highly visible backlit display for easy reading of parameters across the lab

Mega Star 600 centrifuges are available as ventilated or refrigerated versions. The refrigerated version, with pre-cooling function, is suitable for temperature-sensitive sample processing with control between -10 and +40 °C.

TX-150 swing-out rotor: This rotor is designed for a broad range of swing-out processing needs. It offers high speed and high capacity (e.g. 24x5/7 ml blood tubes or 8x15 ml conical tubes) combined with the flexibility of a wide range of adapters.

VWR Mega Star 600/600R is available without rotor for free rotor selection or as packages, including centrifuge, TX-150 rotor, set of four round buckets and four ClickSeal® lids. All models are supplied with two power cords (EU and UK plug) and USB stick with manuals. Adapters must be ordered separately.

Model	Mega Star 600R	Mega Star 600
Max. capacity - swing-out rotor	4x145 ml	
Max. speed - swing-out rotor (min ⁻¹)	4350 (with TX-150 rotor) / 17850 (with MicroClick 24x2 rotor)	4350 (with TX-150 rotor) / 16000 (with MicroClick 24x2 rotor)
Max. RCF - swing-out rotor (xg)	3046 (with TX-150 rotor) / 30279 (with MicroClick 24x2 rotor)	3046 (with TX-150 rotor) / 24328 (with MicroClick 24x2 rotor)
Temperature	-10...+40 °C	
Acceleration/braking ramps	2/2 (standard and soft)	
Motor	Brushless induction motor	
Control	Microprocessor	
Functions	Auto-Lock III rotor locking system, pre-cooling and CFC-free refrigeration, ClickSeal® sealing system	Auto-Lock® III rotor locking system, ClickSeal® sealing system
Programs	3 (direct access) + 96 additional (via folder)	4 (direct access)
Timer	99 h 59 min + continuous	
Anti-unbalance system	Continuous vibration measurement, with rotor mass correction	
Display	Large, bright LCD	
Languages	English, German, French, Spanish, Italian, Dutch and Russian	
Noise level	<56 dB(A) (with TX-150 rotor) / <52 dB(A) (with MicroClick rotor)	<58 dB(A) (with TX-150 rotor)
Power supply	230 V / 50 - 60 Hz	
Power consumption	750 W	310 W
WxDxH (mm)	460x670x320	370x490x310
Weight (kg)	74 (centrifuge only)	35 (centrifuge only)

Description	Pk	Cat. No.
Refrigerated bench top centrifuge, Mega Star 600R, single centrifuge without rotor	1	521-3501
Refrigerated bench top centrifuge, Mega Star 600R, package incl. TX-150 rotor, buckets and caps	1	521-1894
Ventilated bench top centrifuge, Mega Star 600, single centrifuge without rotor	1	521-3500
Ventilated bench top centrifuge, Mega Star 600, package incl. TX-150 rotor, buckets and caps	1	521-1893
Adapters for TX-150 rotor with round buckets		
Adapters, for 1x100 ml round bottom tube (ØxL: 45x117 mm)	4	521-1792
Adapters, 1x50 ml conical or skirted tube (ØxL: 29,5x120 mm)	4	521-1793
Adapters, 2x15 ml conical tubes (ØxL: 17x122 mm)	4	521-1794
Adapters, 4x14 ml urine tubes (ØxL: 18x124 mm)	4	521-2206
Adapters, 7x3/5 ml blood collection tubes (ØxL: 12x124 mm)	4	521-1797
Adapters, 6x5/7 ml blood collection tubes (ØxL: 13x116 mm)	4	521-1796
Adapters, 10x1,5/2 ml microtubes (ØxL: 11x65 mm)	4	521-1798
Adapters, 1x25 ml universal flat/skirted tube (ØxL: 25x199 mm)	4	521-1799
Adapters for fixed angle rotors		
Adapter for MicroClick rotors 30x2 and 24x2; 0,2 ml PCR tube (ØxL: 6,5x20 mm)	30	521-1800
Adapter for MicroClick rotors 30x2 and 24x2; 0,25 ml microtube (ØxL: 6x46 mm)	30	521-1816
Adapter for MicroClick rotors 30x2 and 24x2; 0,5 ml microtube (ØxL: 8x44 mm)	30	521-1815



521-1783



521-1855

ROTOR COMPATIBILITY - VWR MEGA STAR 600 / 600R

The VWR Mega Star 600 / 600R centrifuges are fully compatible with the following Thermo Scientific centrifuge rotors.

Description	Max. speed / RCF	Max. speed / RCF	Cat. No.
	Mega Star 600	Mega Star 600R	
Swing-out rotor, TX-100S, incl. sealed carriers, for 8x5/7 ml blood collection tubes	4350 min ⁻¹ / 3046 xg	4350 min ⁻¹ / 3046 xg	521-1781
Swing-out rotor, TX-100, incl. unsealed carriers, for 16x5/7 ml blood collection tubes	4350 min ⁻¹ / 3046 xg	4350 min ⁻¹ / 3046 xg	521-1782
Swing-out rotor, M-10, for 4 standard microplates or 2 deep well microplates	4400 min ⁻¹ / 2576 xg	4400 min ⁻¹ / 2576 xg	521-1783
Swing-out rotor, MT-12, for 12 microtubes and filtration columns	13000 min ⁻¹ / 16438 xg	13000 min ⁻¹ / 16438 xg	521-1777
Fixed angle rotor, HIGHConic™ III, with biocontainment lid, for 6x50 ml conical tubes	8700 min ⁻¹ / 10155 xg	9500 min ⁻¹ / 12108 xg	521-1785
Fixed angle rotor, sealed vessels, for 8x50 ml tubes	-	5600 min ⁻¹ / 5014 xg	521-1567
CLINIConic™ fixed angle rotor, for 30x15 ml tubes	4400 min ⁻¹ / 3030 xg	4400 min ⁻¹ / 3030 xg	521-1565
Fixed angle rotor, MicroClick, incl. biocontainment lid, for 18x5 ml microtubes	-	14000 min ⁻¹ / 22351 xg	521-1855
Fixed angle rotor, MicroClick, incl. biocontainment lid, for 24x2 ml microtubes	16000 min ⁻¹ / 24328 xg	17850 min ⁻¹ / 30279 xg	521-1786
Fixed angle rotor, MicroClick, incl. biocontainment lid, for 30x2 ml microtubes	14000 min ⁻¹ / 21693 xg	14000 min ⁻¹ / 21693 xg	521-1787
Fixed angle rotor, PCR strip, for 8x8 PCR strips	15000 min ⁻¹ / 17860 xg	15000 min ⁻¹ / 17860 xg	521-1788



Mega Star 1.6

CENTRIFUGES, BENCH TOP, VENTILATED/REFRIGERATED, MEGA STAR 1.6/1.6R

These versatile centrifuges are ideal for a range of routine applications in pharmaceutical and biotechnology industries, as well as for academic research. They offer good capacity with ergonomic design which facilitates work on a bench top.

- Auto-Lock® III rotor system: Tool-free rotor exchange system enables quick rotor exchange; with just the push of a button users can quickly change rotors and easily access the rotor chamber for cleaning
- Aerosol-tight ClickSeal® bucket sealing system: Glove friendly, one-handed open/close capability, no need for screw caps and complicated clips
- SMARTSpin® technology optimises acceleration, braking and residual load imbalance for maximum safety, smooth runs and reproducible separations
- Time saving pulse function for short runs
- Intuitive controls and large, bright LCD aid operation and programming

Mega Star centrifuges are available as ventilated or refrigerated versions. The refrigerated version, with pre-cooling function, is suitable for temperature-sensitive sample processing with control between -10 and +40 °C.

TX-400 swing-out rotor: This rotor is designed for a broad range of laboratory throughput needs. With a capacity of 4x400 ml, 76x5/7 ml blood tubes, 16x50 ml conical or 36x15 ml conical tubes in a single run, it provides very high configuration flexibility.

Centrifuges can be used with all rotors suitable for Megafuge ST1/ST1R Plus centrifuges.

VWR Mega Star 1.6/1.6R is available without rotor for free rotor selection or as packages, including centrifuge, TX-400 rotor, set of four buckets and four ClickSeal® lids. All models are supplied with two power cords (EU and UK plug) and USB stick with manuals. Adapters must be ordered separately.

Note ¹ Measured 1m in front of the instrument at height of 1,6 m

² Measured with Fiberlite F15-8x50cy at 14,500 rpm

Model	Mega Star 1.6	Mega Star 1.6R
Max. capacity - swing-out rotor	4x400 ml	
Max. speed - swing-out rotor (min ⁻¹)	4700	
Max. RCF - swing-out rotor (xg)	4149	
Temperature		-10...+40 °C
Acceleration/braking ramps	9/10	
Motor	Brushless induction motor	
Control	Microprocessor	
Functions	Auto-Lock® III rotor locking system, pre-cooling and CFC-free refrigeration, ClickSeal® sealing system	
Programs	6 (direct access)	
Timer	9 h 59 min or continuous	
Anti-unbalance system	SMARTSpin®	
Display	Large, bright LCD	
Noise level	<73 ^{1,2} dB(A)	<68 ^{1,2} dB(A)
Power supply	230 V / 50 - 60 Hz	
Power consumption	850 W	1350 W
WxDxH (mm)	445x620x364	625x660x362
Weight (kg)	61 (centrifuge only)	94 (centrifuge only)

Description	Pk	Cat. No.
Non refrigerated centrifuges		
Bench top centrifuge, Mega Star 1.6 without rotor	1	521-2658
Bench top centrifuge, Mega Star 1.6, package incl. TX-400 rotor, buckets and lids	1	521-2659
Refrigerated centrifuges		
Refrigerated bench top centrifuge, Mega Star 1.6R without rotor	1	521-2660
Refrigerated bench top centrifuge, Mega Star 1.6R, package incl. TX-400 rotor, buckets and lids	1	521-2661
Adapters for TX-400 Rotor with round buckets		
Adapter for 19x5/7 ml blood collection tubes, 12x110 mm for TX-400	4	521-1416
Adapter for 14x10/15 ml blood collection tubes, 15x113 mm for TX-400	4	521-1417
Adapter for 9x15 ml conical tubes, 16,5x121 mm for TX-400	4	521-1418
Adapter for 4x50 ml conical tubes, 29,5x116 mm for TX-400	4	521-1419
Adapter for 34x1,5/2 ml microtubes, 11x45 mm for TX-400	4	521-1568
Adapter for 5x25/30 ml DIN round/flat bottom tubes, 25,5x108 mm for TX-400	4	521-1425
Adapter for 10x15 ml Sarstedt® tubes, 17x105 mm for TX-400	4	521-1426
Adapter for 4x25 ml universals, 25x110 mm for TX-400	4	521-1427
Adapter for 3x50 ml DIN round tubes, 34,5x105 mm for TX-400	4	521-1428
Adapter for 1x100 ml round open tubes, 45x117 mm for TX-400	4	521-1429
Adapter for 1x250 ml Nalgene bottle, Ø 62x125 mm for TX-400	4	521-1454
Adapter for 19x3 ml RIA open tubes, 11x110 mm for TX-400	4	521-1571
Adapter for 4x15 ml blood collection tubes, 15,5x131 mm for TX-400	4	521-1456
Adapter for 7x14 ml conical urine tubes, 17x112 mm for TX-400	4	521-1457
Adapter for 4x50 ml round tubes, 28,5x114 mm for TX-400	4	521-1458
Fixed angle rotors		
Fixed angle rotor, MicroClick, incl. certified biocontainment lid, for 30x2 ml microtubes or filtration columns (14000 min ⁻¹ / 21693xg)	1	521-1787
Fixed angle rotor, individually sealed, 25°, R max 143 mm, 8x50 ml tubes (30x121 mm), 5600 min ⁻¹ , 5014xg	1	521-1567
CLINIConic™ fixed angle rotor, 37°, R max 140 mm, 30x15 ml tubes (5650 min ⁻¹ , 4997 xg)	1	521-1565
Microtitre 48x2 sealed aluminium fixed angle rotor, 48x2 ml, 15200 min ⁻¹ , 25314 xg	1	521-1349
HIGHConic™ II aluminium fixed angle rotor, 6x94 ml, 10350 min ⁻¹ , 15090 xg	1	521-1358
Microtitre 30x2 sealed aluminium fixed angle rotor, 30x2 ml, 15200 min ⁻¹ , 25830 xg	1	521-1360
Fiberlite™ F21-48x2 fixed angle rotor, 48x2 ml, 15200 min ⁻¹ , 25055 xg	1	521-1369
Fiberlite™ F15-6x100 fixed angle rotor, 6x100 ml, 15000 min ⁻¹ , 24652 xg	1	521-1377
Swing-out rotors		
TX-200 swing-out rotor, 4x180 ml, 5500 min ⁻¹ , 5580 xg	1	521-1566
M-20 microplate rotor, 2x3 standard or 2x1 deep well, 4000 min ⁻¹ , 2272xg, incl. 2 buckets and 2 adapters	1	521-1400
BIOShield® 720 swing-out rotor, 4x180 ml, 5300 min ⁻¹ , 5088 xg	1	521-1564



Mega Star 4.0

CENTRIFUGES, BENCH TOP, VENTILATED/REFRIGERATED, MEGA STAR 4.0 / 4.0R

These versatile centrifuges are ideal for a range of routine applications in pharmaceutical and biotechnology industries, as well as for academic research. They offer exceptional capacity and an ergonomic design which facilitates work on a bench top.

- Auto-Lock® III rotor system: Tool-free rotor exchange system enables quick rotor exchange; with just the push of a button users can quickly change rotors and easily access the rotor chamber for cleaning
- Aerosol-tight ClickSeal® bucket sealing system: Glove friendly one-handed open/close capability, no need for screw caps and complicated clips
- SMARTSpin® technology optimises acceleration, braking and residual load imbalance for maximum safety, smooth runs and reproducible separations
- Time saving pulse function for short runs
- Intuitive controls and large, bright LCD aids operation and programming

Mega Star centrifuges are available as ventilated or refrigerated versions. The refrigerated version, with pre-cooling function, is suitable for temperature-sensitive sample processing with control between -10 and 40 °C.

TX-1000 swing-out rotor: This high capacity (4x1000 ml) rotor accelerates productivity with up to 196x5/7 ml blood tubes, 40x50 ml conical or 96x15 ml conical tubes in a single run.

Centrifuges can be used with all rotors suitable for Megafuge ST4 / ST4R Plus centrifuges.

VWR Mega Star 4.0 / 4.0R is available without rotor for free rotor selection or as packages, incl. centrifuge, TX-1000 rotor, set of four buckets, four ClickSeal® lids. All models are supplied with two power cords (EU and UK plug) and USB stick with manuals. Adapters must be ordered separately.

Note: The TX-750 swing out rotor (521-1352) has a force of 4500 min⁻¹, 4732 xg when used with Mega Star 4.0 / 4.0R centrifuge.

¹ Measured 1m in front of the instrument at height of 1,6 m

² Measured with Fiberlite F15-8x50cy at 14,500 rpm

Model	Mega Star 4.0R	Mega Star 4.0
Max. capacity - swing-out rotor	4x1000 ml	
Max. speed - swing-out rotor (min ⁻¹)	4000	3800
Max. RCF - swing-out rotor (xg)	3739	3374
Temperature	-10...+40 °C	
Acceleration/braking ramps	9/10	
Motor	Brushless induction motor	
Control	Microprocessor	
Functions	Auto-Lock® III rotor locking system, pre-cooling and CFC-free refrigeration, ClickSeal® sealing system	Auto-Lock® III rotor locking system, ClickSeal® sealing system
Programs	6 (direct access)	
Timer	9 h 59 min or continuous	
Anti-unbalance system	SMARTSpin®	
Display	Large, bright LCD	
Noise level	<63 dB(A) ^{1,2}	<68 ^{1,2} dB(A)
Power supply	230 V / 50 - 60 Hz	
Power consumption	1850 W	1600 W
WxDxH (mm)	745x690x363	565x690x364
Weight (kg)	125 (centrifuge only)	89 (centrifuge only)

Description	Pk	Cat. No.
Refrigerated centrifuges		
Refrigerated bench top centrifuge, Mega Star 4.0R without rotor	1	521-2664
Refrigerated bench top centrifuge, Mega Star 4.0R, package including TX-1000 rotor, buckets and lids	1	521-2665
Non refrigerated centrifuges		
Ventilated bench top centrifuge, Mega Star 4.0 without rotor	1	521-2662
Ventilated bench top centrifuge, Mega Star 4.0, package including TX-1000 rotor, buckets and lids	1	521-2663
Adapters for TX-1000 Buckets		
Carriers for microplates, 4x6 standards/4x2 deep well, 86x128 mm, for TX-1000 rotor	4	521-2099
Adapters for 1000 ml bio-bottle, with ØxL: 126x140 mm, for TX-1000 rotor	4	521-3412
Adapters for blood collection tubes (Greiner™), 41x4,5/6 ml (14x110 mm), for BIOLiner rotor	4	521-1536
Adapter for 500 ml Corning™ conical bottle (98x133 mm), 4x500 ml (requires centrifuge tube cushions)	4	521-3414
Adapter, for wide-mouth PP bio-bottle (98x133 mm), 4x750 ml, allows any TX-750 round adapter to fit TX-1000 rotor	4	521-3413
Adapter, for 8x250 ml oak ridge bottles (62x130 mm), for rotor TX-1000	4	521-3416

Description	Pk	Cat. No.
Adapter, for 48x50 ml oak ridge tubes (29,5x120 mm), for rotor TX-1000	4	521-3417
Adapter for 4x2 small blood bag/cell culture bags (<350 ml), for TX-1000 rotor	4	521-3418
Adapter for 250 ml Corning conical bottle, 200 ml Nunc™ bottle or 175 ml Nalgene conical bottle, 4 x 250 ml (62x145 mm), for TX-1000 rotor	1 SET	521-3415
Adapter for 20x50 ml double biocontainment vessel for 50 ml conical tube (can be combined with clickseal lids), 29,5x120 mm, for TX-1000 rotor	4	521-3419
Adapter for 49x5/7 ml blood collection tubes, 14x110 mm	4	521-1411
Adapter for 37x10 ml blood collection tubes, 17x110 mm	4	521-1412
Adapter for 10x50 ml conical tubes, 30x120 mm	4	521-1414
Adapter for Nalgene bottle, 500 ml, 70x160 mm, for TX-1000 rotor	4	521-2098
Adapter for 24x15 ml conical tubes, 17,5x121 mm (for use with rotor TX-1000)	4	521-2154
Fixed angle rotors for Mega Star 4.0/4.0R		
Microlitre 48x2 sealed aluminium fixed angle rotor, 48x2 ml, 15200 min ⁻¹ , 25314 xg	1	521-1349
HIGHConic™ II aluminium fixed angle rotor, 6x94 ml, 10350 min ⁻¹ , 15090 xg	1	521-1358
Microlitre 30x2 sealed aluminium fixed angle rotor, 30x2 ml, 15200 min ⁻¹ , 25830 xg	1	521-1360
Fiberlite™ F21-48x2 fixed angle rotor, 48x2 ml, 15200 min ⁻¹ , 25055 xg	1	521-1369
Fiberlite™ F15-6x100 fixed angle rotor, 6x100 ml, 15000 min ⁻¹ , 24652 xg	1	521-1377
MicroClick rotor, incl.certified biocontainment lid, for 30x2 ml microtubes, 14000min ⁻¹ ,21693 xg	1	521-1787
MicroClick rotor, incl.certified biocontainment lid, for 18x5 ml microtubes, 15000min ⁻¹ ,24652 xg	1	521-1855
Swing-out rotors for Mega Star 4.0/4.0R		
TX-750 swing-out rotor, 4x750 ml,4500 min ⁻¹ , 4732xg	1	521-1352
BIOShield 1000A swing-out rotor, 4x250 ml, 5300 min ⁻¹ ,5590 xg	1	521-1776
M-20 microplate rotor, 2x3 standard or 2x1 deep well,4000 min ⁻¹ ,2272 xg	1	521-1400

CENTRIFUGE, COMPACT STAR CS8



Compact Star CS8

The Compact Star CS8 is a small ventilated bench top centrifuge designed for the separation of various samples in the fields of chemistry, life science, clinical research and routine diagnostics. The supplied rotor accepts 8x15 ml conical tubes, 8x15 ml (16x125 mm) round bottom and 8x10 ml (16x100 mm) blood collection tubes directly and smaller tubes with an included adapter set.

- Easy operation with key pad, large digital displays for time and speed (RPM or RCF)
- Indicator shows if lid is open/closed
- Quick spin button for short cycle mode
- Adjustable acceleration and deceleration

The digital microprocessor ensures that the lid has been closed and that the safety lock is engaged prior to starting a centrifugation cycle. In addition, an advanced imbalance detection system constantly monitor the balance and vibration, automatically bringing the rotor to a stop if an imbalance is detected. This centrifuge is not intended for in vitro diagnostic use.

Included tube adapters are suitable for running 5 ml (12x75 mm) and 7 ml (13x100 mm) tubes.

Supplied with 8x15 ml angle rotor, adapter set, two power cords (EU and UK plug) and USB stick with manuals.

Model	Compact Star CS8
Max. capacity	8x15 ml conical
Max. RCF (xg)	3070
Speed	400 - 5000 (min ⁻¹)
Timer	20 s to 99 min
Noise level	≤ 64 (dB(A))
Force range	Max. Kinetic Energy: 450 Nm
WxDxH (mm)	295x356x310 mm
Weight (kg)	6,8 kg

Description	Pk	Cat. No.
Compact Star CS8 centrifuge, with angle rotor, 230V, 50-60Hz	1	521-3345
Accessories for Compact Star CS8 Benchtop Centrifuge		
Spare adapter set for 5 ml (12x75 mm) and 7 ml (13x100 mm) tube sizes (included in standard delivery)	1 SET	521-3346



PCR plate centrifuge II

CENTRIFUGE, MICROPLATE, PCR PLATE CENTRIFUGE II

The PCR Plate Centrifuge II is a personal sized digital centrifuge designed to spin down droplets in PCR plates. Recommended before and after the use of PCR plates in a thermal cycler for optimised concentration and improved PCR yield. This centrifuge is equipped with a dual-position rotor that accepts a wide variety of PCR plates; 96-well, 384-well, skirted and non skirted. Plates are inserted vertically and quickly spin to a max. speed of 2800 rpm (550 xg).

- Digital display for speed and time
- Quick spin function
- Safety lid lock
- Electronic braking system
- Compact size; quiet, simple operation

Supplied with dual-position vertical rotor, two power cords (EU and UK) and USB stick with manuals. An optional adapter for 0,2 ml PCR tube strips and 0,2 ml PCR tubes is available to order separately.

Max. capacity	2x 96- or 384-well PCR plates
Max. RCF	550xg
Speed range	2200 - 2800 rpm
Acceleration time	Fixed ≤10 s
Deceleration time	Fixed ≤4 s
Timer	15 s to 2 min
Noise level	≤60 dB(A) at maximum speed
Power supply	230 V ±10%, 50 / 60 Hz
Speed setting	100 rpm (increments)
Power consumption	45 W
WxDxH (mm)	240x226x260
Weight (kg)	3,3

Description	Pk	Cat. No.
PCR Plate centrifuge II, 230V	1	521-3497
Description	Pk	Cat. No.
Accessories		
Adapter for 0,2 ml PCR tube strips and 0,2 ml PCR tubes	2	521-1650

SERVICES FOR EQUIPMENT

Description	Pk	Cat. No.
Installation		
Installation of an uncooled centrifuge at the customer's premises. Function test and a brief introduction to user functions	1	SERW0600.0100.01
Installation of a refrigerated centrifuge at the customer's premises. Function test and a brief introduction to user functions	1	SERW0620.0100.01
Maintenance		
Preventive maintenance and operational testing of non refrigerated centrifuge at customer site. Cost of spare parts and travel not included	1	SERW0600.0900.01
Preventive maintenance and operational testing of refrigerated centrifuge at customer site. Cost of spare parts and travel not included	1	SERW0620.0900.01
Maintenance and Calibration		
Preventive maintenance, operational testing and calibration of non refrigerated centrifuge at customer side. 3 Speeds and Time calibration. Calibration certificate included. Cost of spare parts and travel not included	1	SERW0600.1101.01
Preventive maintenance, operational testing and calibration of refrigerated centrifuge at customer side. 3 Speeds, Time and 1 Temperature calibration. Calibration certificate included. Cost of spare parts and travel not included	1	SERW0620.1150.01
IQ/OQ		
Installation Qualification and Operation Qualification of non refrigerated centrifuge at customer site. Qualification Protocols not included. Cost of travel not included	1	SERW0600.7000.01
Installation Qualification and Operation Qualification of refrigerated centrifuge at customer site. Qualification Protocols not included. Cost of travel not included	1	SERW0620.7000.01



CENTRIFUGE TUBES, CONICAL BOTTOM, 5 ML

PP.

- Suitable for freezing to $-90\text{ }^{\circ}\text{C}$
- Good chemical resistance
- Frosted marking area on the tube cap is provided for sample tagging and identification

This tube will withstand autoclaving ($120\text{ }^{\circ}\text{C}$ for 15 min at 15 psi), boiling and centrifuging to $5000\times g$. 5 ml tube can be spun in the same centrifuges that accommodate a 15 ml tube.

Capacity (ml)	Closure type	Version	Colour	Pk	Cat. No.
5	With attached lid	Non sterile	Colourless	200	525-0660
5	With attached lid	Sterile	Colourless	200	525-0666
5	With attached lid	Non sterile	Blue	200	525-0661
5	With attached lid	Non sterile	Yellow	200	525-0662
5	With attached lid	Non sterile	Green	200	525-0663
5	With attached lid	Non sterile	Rose	200	525-0664
5	With attached lid	Non sterile	Black	200	525-0665



Centrifuge tubes, glass

CENTRIFUGE TUBES, GLASS, DURAN®

DURAN®, borosilicate glass 3.3, clear.

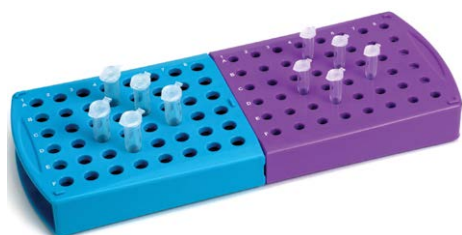
- Excellent chemical and thermal resistance
- Max. RCF: $4000\times g$

Robust universal centrifuge tubes for a wide variety of applications.

* 525-1110 and 525-1114 not in accordance with DIN.

DIN 58970 (Part 2)* only for round bottom tubes.

Description	Capacity (ml)	Closure type	Ø×L (mm)	Pk	Cat. No.
Centrifuge tubes, round bottom	6	Without cap	12×100	1	525-1102
Centrifuge tubes, round bottom	12	Without cap	16×100	1	525-1104
Centrifuge tubes, round bottom	25	Without cap	24×100	1	525-1106
Centrifuge tubes, round bottom	50	Without cap	34×100	1	525-1108
Centrifuge tubes, round bottom	80	Without cap	40×115	1	525-1110
Centrifuge tubes, round bottom	80	Without cap	44×100	1	525-1112
Centrifuge tubes, round bottom	250	Without cap	56×147	1	525-1114
Centrifuge tubes with conical bottom, angle 60°	25	Without cap	24×100	1	525-1132
Centrifuge tubes with conical bottom, angle 60°	50	Without cap	34×100	1	525-1142
Centrifuge tubes with conical bottom, angle 30°	12	Without cap	16×100	1	525-1122



RACKS, MICROCENTRIFUGE TUBE, ROTA-RACK DUO

Work with PCR tubes right next to centrifuge tubes, dilute or take off concentrate using one rack.

- Rotate half the rack to suit particular requirements
- Purple module: 48 places for 0,5 ml microtubes or 48 places for 1,5 ml microtubes
- Blue module: 96 places for PCR tubes or 48 places for 1,5 ml microtubes
- Plate format is, therefore, compatible with 8-channel multi-pipettes
- Tapered wells with alphanumeric grid to help identification

Colour	No. of holes	For tubes (ml)	W×D×H (mm)	Pk	Cat. No.
Purple/blue	96/48/48	0,2/0,5/1,5	296×118×34	1	211-0369



RACKS, MICROCENTRIFUGE TUBE

PP.

- For freezer use
- Side handles for secure handling
- Numbered for easy sample identification

Space for up to 80x1,5 or 2,0 ml microcentrifuge tubes. 5x16 array with conical-shaped holes to hold microtubes securely.

The assorted colour set includes one rack each in blue, green, pink, yellow and orange.

Colour	No. of holes	WxDxH (mm)	Pk	Cat. No.
Natural	80 (5x16)	225x67x29	5	211-0204
Orange	80 (5x16)	225x67x29	5	211-0205
Yellow	80 (5x16)	225x67x29	5	211-0206
Blue	80 (5x16)	225x67x29	5	211-0207
Green	80 (5x16)	225x67x29	5	211-0208
Pink	80 (5x16)	225x67x29	5	211-0209
Assorted colours	80 (5x16)	225x67x29	5	211-0210



Racks, microcentrifuge tube

RACKS, MICROCENTRIFUGE TUBE

PP.

- For freezer use
- Side handles for secure handling
- Numbered for easy sample identification

For 96 (8x12) microtubes with 0,5 ml capacity or 96 microtubes with 1,5/2 ml capacity. Conical, tapered openings to hold tubes securely. Complete with snap-on lid, which can also be used as a protective base.

The assorted colour kit includes one rack each coloured blue, green, pink, yellow and orange.

Colour	No. of holes	WxDxH (mm)	Pk	Cat. No.
Natural	96 (8x12)	246x121x51	5	211-0213
Yellow	96 (8x12)	246x121x51	5	211-0214
Blue	96 (8x12)	246x121x51	5	211-0215
Green	96 (8x12)	246x121x51	5	211-0216
Pink	96 (8x12)	246x121x51	5	211-0217
Assorted colours	96 (8x12)	246x121x51	5	211-0218



MICROTUBE RACKS, FLOATING, VWR®

PP.

- Removable feet enable microtubes to be removed quickly and easily
- Also suitable for cryotubes with up to 2 ml capacity
- Stable, good chemical resistance

For maintaining microtubes with capacities from 0,5 to 2 ml at constant temperature in water baths. Racks float even when full. The tubes are held firmly in place in the frame and do not float. Handles are provided for easier insertion and removal from the water bath and for carrying. Not autoclavable.

For tubes (ml)	No. of holes	Form	WxDxH (mm)	Colour	Pk	Cat. No.
1,5/2,0	20	Round		White	4	211-0226
1,5/2,0	16 (4x4)	Square	102x102x60	White	4	211-0223
0,4/0,5	16 (4x4)	Square	102x102x60	Black	4	211-0224

Setting science in motion to create a better world



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