

VWR® Benchtop Centrifuges

01. EASY TO USE

02. SPACE-SAVING DESIGN

03. ENERGY EFFICIENT



VWR® Mega Star 1.6/1.6R and 4.0/4.0R General-purpose Centrifuges

Optimize your projects with the VWR® Mega Star general-purpose centrifuge series.

This versatile benchtop centrifuge provides maximum sample security and reproducibility in an intuitive, easy-to-use platform.

Choose between a compact mid-size 1.6 L or a high capacity 4.0 L model to optimize your bench space and productivity.

EASY TO USE

- Intuitive controls simplify operation and provide detailed information on a wide range of operating parameters for optimal performance
- Modern industrial design supports ergonomics and user safety

AUTO-LOCK™ III ROTOR SYSTEM

- Secure locking system allows easy push-button installation and exchange of rotors with no tools needed
- System saves time when switching between applications
- Easy access to rotor chamber offers quick cleaning, a healthier working environment and longer unit life

CLICKSEAL™ BIOCONTAINMENT SOLUTION

- Seals with a snap; eliminates screw caps and complicated clips
- System has glove-friendly, one-handed open and close capability
- System is certified by CAMR™ in Porton Down, UK

SPACE-SAVING DESIGN

- Compact dimensions optimize work area
- Ergonomic height and curved design ensure easy sample loading and unloading and easy cleaning

ENERGY EFFICIENT

- System offers up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tube processing

Control system	Microprocessor
Drive system	Direct, brushless induction motor
Accel/Decel profiles	Choice of nine acceleration and ten deceleration rates including no brake option
Materials	Metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction

Mega Star 1.6/1.6R Centrifuges and Cell Culture Packages

This mid-size benchtop option is available in centrifuge only and cell culture package options.

Cell culture packages include the following with your choice of ventilated or refrigerated centrifuge.

- TX-400 rotor cross
- TX-400 buckets (set of four)
- TX-400 ClickSeal™ biocontainment lids (set of four)
- Adapters 4x50 ml conical (set of four)
- Adapters 9x16 ml conical (set of four)



Description	Capacity	Temp. range	Weight	Cat. No.
Mega Star 1.6 and 1.6R Centrifuges				
VWR® Mega Star 1.6 general purpose benchtop centrifuge, ventilated, 120 V (centrifuge only)	1.6 L	—	61 kg (134 lbs.)	76468-134
VWR® Mega Star 1.6R general purpose benchtop centrifuge, refrigerated, 120 V (centrifuge only)	1.6 L	-10...+40 °C	92 kg (202.8 lbs.)	76468-132
Mega Star 1.6 and 1.6R Cell Culture Packages*				
VWR® Mega Star 1.6 general purpose benchtop centrifuge cell culture package, ventilated, 120 V	1.6 L	—	61 kg (134 lbs.)	76519-282
VWR® Mega Star 1.6R general purpose benchtop centrifuge cell culture package, refrigerated, 120 V	1.6 L	-10...+40 °C	92 kg (202.8 lbs.)	76519-280

* Cell culture packages includes TX400 rotor, set of four 400 ml buckets, set of four ClickSeal™ biocontainment lids, set of four 4x50 ml conical tube adapters, set of four 9x15 ml conical tube adapters.

Model	Mega Star 1.6	Mega Star 1.6R
Max. Speed of Centrifuge	15200 rpm (depending on rotor)	15200 rpm (depending on rotor)
Max. Speed with TX-400	4750 rpm, 4238xg	4750 rpm, 4238xg
Max. RCF	25830xg (depending on rotor)	25830xg (depending on rotor)
Voltage	120 V	120 V
Depth	66 cm (26")	66 cm (26")
Height	Lid open: 85.5 cm (33.6") Lid closed: 36.2 cm (14.3")	Lid open: 85.5 cm (33.6") Lid closed: 36.1 cm (14.2")
Width	44.5 cm (17.5")	62.5 cm (24.6")

Mega Star 4.0/4.0R Centrifuges and Cell Culture Packages

This high-capacity benchtop option is available in centrifuge only and cell culture package options.

Cell culture packages include the following with your choice of ventilated or refrigerated centrifuge.

- TX-1000 rotor cross
- TX-1000 buckets (set of four)
- TX-1000 ClickSeal™ biocontainment lids (set of four)
- Adapters 10x50 ml conical (set of four)
- Adapters 24x15 ml conical (set of four)



Description	Capacity	Temp. range	Weight	Cat. No.
Mega Star 4.0 and 4.0R Centrifuges				
VWR® Mega Star 4.0 general purpose benchtop centrifuge, ventilated, 120 V (centrifuge only)	4.0 L	—	89 kg (196 lbs.)	76468-138
VWR® Mega Star 4.0R general purpose benchtop centrifuge, refrigerated, 120 V (centrifuge only)	4.0 L	-10...+40 °C	117 kg (258 lbs.)	76468-136
Mega Star 4.0 and 4.0R Cell Culture Packages				
VWR® Mega Star 4.0 general purpose benchtop centrifuge cell culture package, ventilated, 120 V	4.0 L	—	89 kg (196 lbs.)	76519-286
VWR® Mega Star 4.0R general purpose benchtop centrifuge cell culture package, refrigerated, 120 V	4.0 L	-10...+40 °C	117 kg (258 lbs.)	76519-284

* Cell culture packages includes TX1000 rotor, set of four 1000 ml buckets, set of four ClickSeal™ biocontainment lids, set of four 10x50 ml conical tube adapters, set of four 24x15 ml conical tube adapters.

Model	Mega Star 4.0	Mega Star 4.0R
Max. Speed of Centrifuge	15200 rpm (depending on rotor)	15200 rpm (depending on rotor)
Max. Speed with TX-1000	3800 rpm, 3374xg	4200 rpm, 4122xg
Max. RCF	25830xg (depending on rotor)	25830xg (depending on rotor)
Voltage	120 V	120 V
Depth	66 cm (26")	66 cm (26")
Height	Lid open: 86.1 cm (33.9") Lid closed: 36.2 cm (14.3")	Lid open: 86.1 cm (33.9") Lid closed: 36.1 cm (14.2")
Width	56.6 cm (22.3")	74.6 cm (29.4")

VWR® Mega Star 600/600R Compact Centrifuges

The Mega Star 600 and 600R centrifuges optimize bench space with maximized capacity in a compact footprint. Available in both a ventilated and refrigerated option, it comes with a user-friendly interface and is adaptable in the ever evolving clinical and research laboratory.

AUTO-LOCK™ III ROTOR SYSTEM

- Secure locking system allows easy push-button installation and exchange of rotors with no tools needed
- System saves time when switching between applications
- Easy access to rotor chamber offers quick cleaning, a healthier working environment and longer unit life

CLICKSEAL™ BIOCONTAINMENT SOLUTION

- Seals with a snap; eliminates screw caps and complicated clips
- System has glove-friendly, one-handed open and close capability
- System is certified by CAMR™ in Porton Down, UK

SPACE-SAVING DESIGN

- Compact dimensions optimize work area
- Ergonomic height and curved design ensure easy sample loading and unloading and easy cleaning

APPLICATION FLEXIBILITY:

- Spin up to 4 x 50 mL, 8 x 15mL conical tubes, blood tubes, microtubes and other common tubes in the TX-150 swing-out rotor with ClickSeal Biocontainment
- Spin up to 4 standard or 2 midi-deepwell microplates in the M-10 swinging bucket microplate rotor, with options for sealed or unsealed carriers
- Flexibility to spin fixed angle rotors with 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g

OTHER FEATURES

- One-touch operation with pre-saved protocols and alphanumeric naming
- Highly visible backlit display for easy reading of parameters across the lab
- Glove- and detergent-friendly interface

Control system	Microprocessor
Drive system	Direct, brushless induction motor
Accel/Decel profiles	2/2 (standard and soft)
Materials	Brushed stainless steel centrifuge chamber
Safety features	Continuous vibration measurement, with rotor mass correction



CENTRIFUGE ONLY

Description	Cat. No.
Mega Star 600 Ventilated Centrifuge, 120V	76533-880
Mega Star 600R Refrigerated Centrifuge, 120V	76533-882

CELL CULTURE PACKAGES

Description	Cat. No.
Mega Star 600 Ventilated Cell Culture Package	76533-884
Mega Star 600R Refrigerated Cell Culture Package	76533-886

Cell Culture Packages include centrifuge, TX-150 swing out rotor, set of four ClickSeal biocontainment lids, set of four 150ml round buckets, set of four 1x50mL conical tube and 2x15mL conical tube adapters

VWR® Mega Star 600	
Running Time	99 hr 59 min 50 sec, hold
Maximum Speed	16000 rpm (with MicroClick 24 rotor)
Minimum Speed	300 rpm
Maximum RCF	24328xg (with MicroClick 24 rotor)
Sound Level	< 58 dB (A) (measured with a TX-150 rotor)
Dimensions	
Height (open door / closed door)	660 mm / 310 mm (26.8 / 12.2 in)
Width	370 mm (14.6 in)
Depth	490 mm (18.9 in)
Weight ²	35 kg (77 lbs)

¹ Front Side Measurement, 1 m in front of the instrument at 1.6 m height

² Without Rotor



VWR® Mega Star 600R	
Running Time	99 hr 59 min 50 sec, hold
Maximum Speed	17850 rpm (with MicroClick 24 rotor)
Minimum Speed	300 rpm
Maximum RCF	30279xg (with MicroClick 24 rotor)
Sound Level	< 52 dB (A) (measured with a MicroClick 24 x 2 rotor). < 58 dB (A) (measured with a TX-150 rotor)
Temperature Setting Range	10 °C to +40 °C
Dimensions	
Height (open door / closed door)	700 mm / 320 mm (27.5 / 12.6 in)
Width	460 mm (18.1 in)
Depth	670 mm (26.4 in)
Weight ²	74 kg (163 lbs)

¹ Front Side Measurement, 1 m in front of the instrument at 1.6 m height

² Without Rotor

VWR® Micro Star 21 and 21R Microcentrifuges



SUPPORT YOUR MICRO-VOLUME SEPARATION NEEDS

- Exceptional acceleration of up to 21,000xg in as little as 12 seconds
- Unit includes 24 x 1.5/2mL microtube rotor with ClickSeal biocontainment lid designed for common micro applications like processing spin columns
- Simplify operation with intuitive controls, easy-to-read displays and fast one-click ClickSeal rotor lid closure
- Sleek, lightweight, space-saving design
- Durable and easy to clean and maintain
- Quiet performance promotes a safe, stress-free environment

CENTRIFUGE

Description	Cat. No.
Micro Star 21, Ventilated, 120V	76533-876
Micro Star 21R, Refrigerated, 120V	76533-878

24 x 1.5/2 mL rotor with ClickSeal biocontainment lid included

COMPATIBLE ROTORS

Description	Cat. No.
24 x 1.5/2.0 mL rotor with ClickSeal biocontainment lid	97000-052
Dual Row 18 x 2.0/0.5 mL rotor with screw-on lid	76081-580
36 x 0.5 mL rotor with screw-on lid	76081-582
10 x 5 mL rotor with ClickSeal biocontainment lid	76537-068
PCR 8 x 8 rotor with screw-on lid	76081-586
PCR 4 x 8 rotor with ClickSeal biocontainment lid	76081-584

	Micro Star 21	Micro Star 21R
Speed Range	300-14800 rpm	
Temperature Setting Range	Ventilated, N/A	Refrigerated, Set from -9C to +40C
RCF Value at Max. Speed	21100xg	
Height	23.5 cm (9.2 in)	28.5 cm (11.2 in)
Width	23.0 cm (9.0 in)	33.0 cm (13.0 in)
Depth	36.5 cm (14.4 in)	45.0 cm (17.7 in)