



PRODUCT BROCHURE · BENCHMARK SCIENTIFIC

Z327 V1 9.22 SM V2

27 models inside · Life Science · Centrifuge Accessories



QUICK VIEW — SERIES AT A GLANCE

27 models in this document from Benchmark Scientific. Full specifications inside.

MODELS IN THIS DOCUMENT

Z327-200-A50 · Z327-200-A50SS · Z327-200-A5F
· Z327-200-A85 · ...

SHIP WEIGHT

95–132 lb

SOURCING

Authorized U.S. distributor

Distributed by Legacy Lab Supplies

legacylabsupplies.com · (855) 746-7557 / 855-SHOP-LLS · quotes in 24 hours



Universal Centrifuges

| Z327

| Z327-K



HERMLE
Benchmark 

4 x 200 ml

Z327 Z327-K



Z327



Z327-K

Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic radio-frequency rotor identification system (RFID) with over speed protection, immediately upon rotor insertion
- Active imbalance identification and cut-off (rotor specific)
- CFC-free refrigeration system (Z327-K)
- A large variety of rotors and accessories
- Audible signal at the end of each run with several melody options
- Noise level under 63 dBA at max. speed
- Manufactured according to international safety regulations, i.e. IEC 61010
- Rotor exchange is easy to handle
- Optimized airflow system keeps the samples cool (Z327)
- Stainless steel chamber

Both the Z327 and the refrigerated Z327-K offer a wide assortment of rotor options, making them ideal for a wide variety of research applications. Rotor exchange between swing out, micro, or high volume fixed angle rotors is very simple and can be done in a matter of seconds. The Z327-K features rear mounted refrigeration system, optimized for saving space on the lab bench at only 40 cm wide!

Technical data

max. speed:	18,000 rpm
max. RCF:	23,542 xg
max. volume:	4 x 200 ml
Speed range:	200 – 18,000 rpm
Temperature range	
Z327-K:	-20°C to 40°C
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 1 min increments
Dimensions	
Z327:	15.7 in x 14 in x 19 in 40 cm x 36 cm x 48 cm (WxHxD)
Z327-K:	15.7 in x 14 in x 27.5 in 40 cm x 36 cm x 70 cm (WxHxD)
Weight	95 lbs / 132 lbs
Z327 / Z327-K:	43 kg / 60 kg
Power input:	460 W / 660 W
Z327 / Z327-K:	
Order No.:	
Z327:	Z327, 120V / 50-60Hz Z327-E, 230V / 50-60Hz
Z327-K:	Z327-K, 120V / 50-60Hz Z327-K-E, 230V / 50-60Hz



Z327-K

Distinct Control Panel

- Simple one handed Touch-Operation
- Easy to program with gloves on
- Splash proof digital display
- Permanent indication of Preset and Actual Values
- Selection of speed in both rpm and rcf, with increments of 10
- 10 acceleration and 10 deceleration rates, Possibility of brakeless deceleration
- Preselection of the temperature from - 20°C to 40°C with 1°C increments (Z327-K)
- Indication of the sample temperature (Z327-K)
- Pre-cooling program option (Z327-K)
- Standstill cooling (Z327-K)
- Pre-selection of running time from 10 s to 99 h 59 min or continuous
- Storage of up to 99 runs including rotor type
- Quick-key for short runs
- Diagnostic program
- Timer: the centrifuge starts at the preselected time

Accessories Z327 and Z327-K

Rotor/Bucket

Order No.:
Z327-200

Swing out rotor 4 place w/ buckets
Angle: 0-90°
(w/o buckets: Z327-200-AC)

Z327-200-BUK
Bucket for Adapter

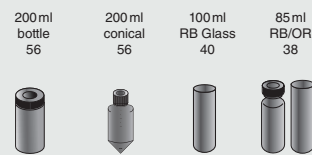
Z327-200-LID
Lid for Bucket | hermetically sealed



Adapter

Acceleration in s: 21/102
Deceleration in s: 12/387
max. speed: 5,000 rpm
RCF-Value: 4,136 xg
max. radius: 14.8 cm

Volume
Tubes Ø in mm



Length min./max. (mm)
Tubes per Rotor
Radius Correction (cm)
Order No. Adapter: Z327-200-___

200 ml bottle	200 ml conical	100 ml RB Glass	85 ml RB/OR
56	56	40	38
112	120	95/115	95/108
4	4	4	4
0.0	0.0	0.2	0.2
without	A200	A100	A85

Volume
Tubes Ø in mm

Length min./max. (mm)
Tubes per rotor
Radius Correction (cm)
Order No. Adapter: Z327-200-___

50 ml RB/OR	50 ml conical	50 ml skirted	25/30 ml Universal	25/30 ml RB/OR	15 ml conical	15 ml conical	15 ml RB	5/7 ml RB	5 ml conical	1.5/2.0 ml micro	6-15 ml Vakut.®	6-10 ml Vakut.®	1.8-7 ml Vakut.®	50 ml conical
29	29	29	25	25	17	17	17	13	17	11	16	16	13	29
95/103	116	116	95/105	90/110	120	120	60/107	65/100	60/70	40	130	100	75/100	116
4	4	4	4	4	16	12	28	32	20	32	4	28	32	8
0.2	0.1	0.2	0.2	0.2	0.1	0.0	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.0
A50R	A50	A50SS	A25	A30	A15B*	A15	A10	A57	A5F	A20	A15L	A10	A57	B50*

*only without bucket lid

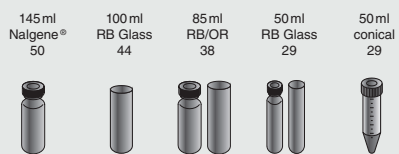
Order No.:
Z306-100

Swing out rotor 4 place
Angle: 0-90°



Acceleration in s: 12/93
Deceleration in s: 12/226
max. speed: 4,500 rpm
RCF-Value: 3,350 xg
max. radius: 14.8 cm

Volume
Tubes Ø in mm



Length min./max. (mm)
Tubes per rotor
Radius Correction (cm)
Order No. Adapter: Z306-100-___

145 ml Nalgene®	100 ml RB Glass	85 ml RB/OR	50 ml RB Glass	50 ml conical
50	44	38	29	29
100	90/108	90/108	90/118	116
4	4	4	4	4
1.0	1.0	0.8	0.7	0.3
A145	A100	A85	A50R	A50

Volume
Tubes Ø in mm

Length min./max. (mm)
Tubes per rotor
Radius Correction (cm)
Order No. Adapter

50 ml Rim	30 ml Universal	15 ml conical	15 ml RB	6-10 ml Vakut.®	1.8-7 ml Vakut.®	1.5/2.0 ml micro
29	25	17	17	16	13	11
116	95/105	120	90/108	90/108	75/100	40
4	4	8	28	28	28	40
0.6	1.1	0.0	0.4	0.4	0.7	5.5
A50SS	A30	A15	A10	A10	A57	A20

Order No.:
Z326-100H

Swing out rotor 4 Places
w/ sealed buckets
Angle: 0-90°

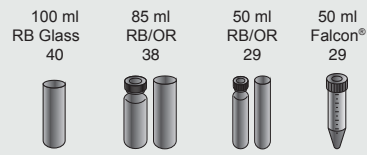
Z326-100H-BUK
Bucket for Tube Rack w/ lid

Z326-100H-LID
Lid for bucket



Acceleration in s: 15/100
Deceleration in s: 15/150
max. Speed: 5000 rpm
RCF-value: 4080 xg
max. Radius: 14.6 cm
Temp. at max. speed: 2°C

Volume
Tubes ø in mm



Length min./max. in mm
Tubes per rotor
Radius correction (cm)
Order-No.: Z326-100H-___

100 ml RB Glass	85 ml RB/OR	50 ml RB/OR	50 ml Falcon®
40	38	29	29
90/108	90/108	90/133	116
4	4	4	4
0.9	0.6	0.6	0.4
A100	A85	A50R	A50

Volume
Tubes Ø in mm

Length min./max. (mm)
Tubes per rotor
Radius Correction (cm)
Order No. Tube rack

50 ml skirted	30 ml Universal	15 ml Falcon®	15 ml Falcon®	15 ml RB Glass	6-10 ml Vakut.®	10-15 ml Vakut.®	1.8-7 ml Vakut.®	1.5 ml Reakt.	50 ml Falcon®	15 ml Falcon®
29	25	17	17	17	16	16	13	11	29	17
116	95/105	120	120	90/108	75/100	75/125	75/100	42	116	120
4	4	4	8	16	16	4	16	20	8	12
0.7	1.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.0	0.0
A50SS	A30	A15S	A15*	A15R	A10	A15L*	A57	A20	B50	B15

* only without bucket lid

Accessories Z327 and Z327-K

Rotor/Bucket		Adapter																					
Order No.: Z326-02MP  Swing out rotor 2x3 Microplates Angle: 0-90°	Acceleration in s: 22/155 Deceleration in s: 16/518 max. speed: 4,500 rpm RCF-Value: 2,716 xg max. radius: 12.0 cm max. loading height: 63 mm max. loading weight: 310 g Temp. at max. speed: -5°C		Order No.: BT1500-A1520 BT1500-A05 Z326-MPCA	Tube rack 20 x 1.5 ml (2.0 ml) Tubes 20 x 0.5 ml 3 x Chamber Slide or 30/60 mm petri dish																			
Order No.: Z326-3015  Angle rotor 30 x 15 ml Glass or 20 x 15 ml conical Angle: 35°	Acceleration in s: 17/114 Deceleration in s: 11/632 max. speed: 4,500 rpm RCF-Value: 2,830/2,467 xg max. radius: 12.5/10.9 cm max. Ø: 17 mm Temp. at max. speed: -7°C		Order No.: without without C3100-ADP	Adapter 1 x 15 ml Glass 1 x 15 ml conical 1 x 5/7 ml	Ø [mm] 17.0 17.0 13 Length [min./max.]: 95/115 120 75/100																		
Order No.: Z326-1215  Angle rotor 12 x 15 ml Angle: 32°	Acceleration in s: 18/103 Deceleration in s: 12/356 max. speed: 6,000 rpm RCF-Value: 4,427 xg max. radius: 11.0 cm max. Ø: 17 mm Temp. at max. speed: -9°C		<table><tr><td>Volume</td><td>15 ml conical</td><td>15 ml</td><td>4-7 ml Vakut.®</td><td>1.8-5 ml Vakut.®</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tubes Ø in mm Length min./max. in mm Order No. Adapter</td><td>17 120 without</td><td>17 105/120 without</td><td>13 100 C3100-ADP</td><td>13 75 C3100-ADP</td></tr></table>			Volume	15 ml conical	15 ml	4-7 ml Vakut.®	1.8-5 ml Vakut.®						Tubes Ø in mm Length min./max. in mm Order No. Adapter	17 120 without	17 105/120 without	13 100 C3100-ADP	13 75 C3100-ADP			
	Volume	15 ml conical	15 ml	4-7 ml Vakut.®	1.8-5 ml Vakut.®																		
																							
Tubes Ø in mm Length min./max. in mm Order No. Adapter	17 120 without	17 105/120 without	13 100 C3100-ADP	13 75 C3100-ADP																			
Order No.: Z326-0650-LS  Angle rotor 6 x 50 ml Angle: 40°	Acceleration in s: 15/102 Deceleration in s: 11/486 max. speed: 6,000 rpm RCF-Value: 4,427 xg max. radius: 11.0 cm max. Ø: 29 mm Temp. at max. speed: -6°C		<table><tr><td>Volume</td><td>50 ml conical</td><td>50 ml RB/OR</td><td>15 ml conical</td><td>7 ml</td><td>5 ml</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tubes Ø in mm Length min./max. in mm Order No. Adapter</td><td>29 116 without</td><td>29 100/120 without</td><td>17 120 Z206-50-A15</td><td>17 97/120 Z206-50-A57</td><td>18 100/105 Z206-50-A57C* *with Z206-50-A57</td></tr></table>			Volume	50 ml conical	50 ml RB/OR	15 ml conical	7 ml	5 ml							Tubes Ø in mm Length min./max. in mm Order No. Adapter	29 116 without	29 100/120 without	17 120 Z206-50-A15	17 97/120 Z206-50-A57	18 100/105 Z206-50-A57C* *with Z206-50-A57
	Volume	50 ml conical	50 ml RB/OR	15 ml conical	7 ml	5 ml																	
																							
Tubes Ø in mm Length min./max. in mm Order No. Adapter	29 116 without	29 100/120 without	17 120 Z206-50-A15	17 97/120 Z206-50-A57	18 100/105 Z206-50-A57C* *with Z206-50-A57																		
Order No.: Z326-0685-25  Angle rotor 6 x 85 ml Angle: 25°	Acceleration in s: 65/399 Deceleration in s: 38/988 Acceleration in s: 98/495 Deceleration in s: 47/1,068 max. speed: 11,000 rpm max. speed: 13,500 rpm RCF-Value: 13,932 xg RCF-Value: 20,984 xg max. radius: 10.3 cm max. Ø: 38 mm Temp. at max. speed: 15°C		Order No.: without Z326-85-A50R Z326-85-A50 Z326-85-A30 Z326-85-B15R Z326-85-A15R Z326-85-A15	Adapter 1 x 85 ml 1 x 50 ml 1 x 50 ml conical 1 x 30 ml 2 x 15 ml 1 x 15 ml 1 x 15 ml conical	Ø [mm] 38 29 29 25 17 17 17 Length [min./max.]: 113 105 116 90/103 95/100 103/110 120																		
Order No.: Z326-0685  Angle rotor 6 x 85 ml Angle: 38°	Acceleration in s: 62/412 Deceleration in s: 34/1,310 max. speed: 9,000 rpm RCF-Value: 10,413 xg max. radius: 11.5 cm max. Ø: 38 mm Temp. at max. speed: 1°C		Order No.: without Z326-85-A50R Z326-85-A50 Z326-85-A30 Z326-85-B15R Z326-85-A15R Z326-85-A15	Adapter 1 x 85 ml 1 x 50 ml 1 x 50 ml conical 1 x 30 ml 2 x 15 ml 1 x 15 ml 1 x 15 ml conical	Ø [mm] 38 29 29 25 17 17 17 Length [min./max.]: 113 105 116 90/103 95/100 103/110 120																		



Accessories Z327 and Z327-K

Rotor/Bucket		Adapter				
Order No.: Z326-0485		Acceleration in s: 68/307 Deceleration in s: 34/1,102 max. speed: 12,000 rpm RCF-Value: 14,809 xg max. radius: 9.2 cm max. Ø: 38 mm Temp. at max. speed: 3°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 4 x 85 ml Angle: 30°			without	1 x 85 ml	38	113
			Z326-85-A50R	1 x 50 ml	29	105
			Z326-85-A50	1 x 50 ml conical*	29	116
			Z326-85-A30	1 x 30 ml	25	90/103
			Z326-85-B15R	2 x 15 ml	17	95/100
			Z326-85-A15R	1 x 15 ml	17	103/110
			Z326-85-A15	1 x 15 ml conical*	17	120
			*only without rotor lid			

Order No.: Z326-0650-HS		Acceleration in s: 44/358 Deceleration in s: 26/772 max. speed: 12,000 rpm RCF-Value: 13,522 xg max. radius: 8.4 cm max. Ø: 29 mm Temp. at max. speed: 4°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 6 x 50 ml (round) Angle: 26°			without	1 x 50 ml round	29	95/115
			Z326-50-A30	1 x 30 ml	25	92/95
			Z326-50-B15R	1 x 15 ml	17	100/105
			Z326-50-A15R	1 x 15 ml conical*	17	120
			*only without rotor lid			

Order No.: Z326-1050		Acceleration in s: 59/374 Deceleration in s: 35/1.698 max. speed: 7,500 rpm RCF-Value: 8,141 xg max. radius: 13 cm max. Ø: 29 mm Temp. at max. speed: 0°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 10 x 50 ml conical Angle: 38°			Z326-50-B15HS	1 x 15 ml RB	17	97/123
			Z326-15-A7*	1 x 7 ml	13.5	95/115
			Z326-15-A5*	1 x 5 ml	13.5	70/90
			Z326-15-A20*	1 x 1.5/2.0 ml	11	42
			Z326-50-A15	1 x 15 ml conical	17	120
*only possible with adapter Z326-50-A15 or Z326-50-B15						

Order No.: Z326-1205		Acceleration in s: 24/206 Deceleration in s: 20/436 Acceleration in s: 26/220 Deceleration in s: 21/420 max. speed: 14,000 rpm max. speed: 15,000 rpm RCF-Value: 18,624 xg RCF-Value: 21,379 xg max. radius: 8.5 cm max. Ø: 17 mm Temp. at max. speed: 2°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 12 x 5 ml Tubes Angle: 45°			without	1 x 5.0 ml conical	17	60
			Z216-05-C10	1 x 1.0 ml Cryo, flat	12.6	41
			Z216-05-C18	1 x 1.8 ml Cryo, round	12.6	48

Order No.: Z326-2010		Acceleration in s: 54/357 Deceleration in s: 29/842 max. speed: 12,000 rpm RCF-Value: 15,775 xg max. radius: 9.8 cm max. Ø: 16 mm Temp. at max. speed: 4°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 20 x 10 ml Angle: 30°			without	1 x 10 ml	16	80

Order No.: Z326-3020H		Acceleration in s: 31/189 Deceleration in s: 20/504 Acceleration in s: 35/205 Deceleration in s: 22/465 max. speed: 13,000 rpm max. speed: 14,000 rpm RCF-Value: 17,758 xg RCF-Value: 20,595 xg max. radius: 9.4 cm max. Ø: 11 mm Temp. at max. speed: 6°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
Angle rotor 30 x 1.5/2.0 ml Angle: 45°			without	1 x 2.0 ml	11	40
			without	1 x 1.5 ml	11	40
			704.005	1 x 0.5 ml	8	45
			704.004	1 x 0.4/0.2 ml PCR	6	45

Accessories Z 327 and Z 327 K

Rotor/Bucket		Adapter				
Order No.: Z326-4420  Angle rotor 44 x 1.5/2.0 ml Angle: 32°/55°	Acceleration in s: 31/256 Deceleration in s: 21/441 max. speed: 15,000 rpm RCF-Value: 21,379 xg max. radius: 8.5 cm max. Ø: 11 mm Temp. at max. speed: 3°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	
		without	1 x 2.0 ml	11	40	
		without	1 x 1.5 ml	11	40	
		C1008-A5-6	1 x 0.5 ml	8	45	
		C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45	

Order No.: Z326-2420  PPS-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed	Acceleration in s: 25/222 Deceleration in s: 17/261 max. speed: 15,000 rpm RCF-Value: 21,379 xg max. radius: 8.5 cm max. Ø: 11 mm Temp. at max. speed: 3°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
		without	1 x 2.0 ml	11	40
		without	1 x 1.5 ml	11	40
		C1008-A5-6	1 x 0.5 ml	8	45
		C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Order No.: Z326-2420H  Alu-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed (aluminum lid)	Acceleration in s: 26/222 Deceleration in s: 17/267 max. speed: 15,000 rpm RCF-Value: 21,379 xg max. radius: 8.5 cm max. Ø: 11 mm Temp. at max. speed: 4°C	Order No.:	Adapter	Ø [mm]	Length [min./max.]:
		without	1 x 2.0 ml	11	40
		without	1 x 1.5 ml	11	40
		C1008-A5-6	1 x 0.5 ml	8	45
		C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Order No.: Z326-3202  Angle rotor 4 x 8-place PCR Strips Angle: 45°	Acceleration in s: 14/126 Deceleration in s: 15/154 max. speed: 15,000 rpm RCF-Value: 15,343 xg max. radius: 6.1 cm max. Ø: 6 mm Temp. at max. speed: 2°C				

Order No.: Z326-1220H  Angle rotor 12 x 1.5 / 2.0 ml Angle: 40°	Acceleration in s: 25/240 Deceleration in s: 20/210 Max. speed: 18,000 rpm Max. RCF: 23,542 xg Max. radius: 6.5 cm Max. Ø: 11 mm Temp. at max. speed: 3°C	Order No.:	0.4 ml Tubes (Ø 6 x 50 mm) Adapter Kit (6 Pieces)
		Z36-04-HS	
		Z36-05-HS	0.5 ml Tubes (Ø 8 x 32 mm) Adapter Kit (6 Pieces)
		Z36-20-HS	1.5 ml Adapter for full performance (necessary from 16,000 xg on) (6 Pieces)



The intuitive control panel makes it easy for anyone to operate Hermle Centrifuges.

■ The Perfect Fit



Easy Handling:

- The ergonomic control panel is very user-friendly and enables a smooth and swift operation process.
- There is no need to remove surgical gloves during operation.
- Strictly a HERMLE application, you can store up to 99 different programs.
- Make yourself comfortable; operate this model from your laptop or computer. Our multi-functional software, "H-Control", allows you to control the centrifuge independently and save your protocols (this function has to be ordered separately).
- For re-assurance that your samples are finished, an acoustic signal will sound when the centrifugation is complete (this function can be deactivated).

Safety:

- The Z327 and Z327-K have an automatic imbalance shut off system
- There is over speed protection incorporated for each rotor.
- You can only start the models when the centrifuge lid is closed.
- In case of operation malfunction, an error code will appear on the display; this helps to indicate the reason for the malfunction and to eliminate it.
- Its' stable and firm design, made of massive steel, ensures excellent mechanical protection.
- The buckets of the swing out rotor Z327-100H are hermetically sealable.

Efficient and Versatile:

- Due to the wide range of adapter and rotor options, models Z327 and Z327-K can hold all common tubes and bottles, up to 200 ml.
- With easy rotor exchange, you can switch between different kinds of rotors like swing-out, microlitre, micro-plate or big volume fixed angle rotors.
- Despite the high capacity, the design of these devices is compact and space saving, even the Z327-K with its powerful refrigeration system.
- Profit from our "pre-cooling" function, cool down the rotor rapidly to your desired temperature. For this, the centrifuge automatically determines the necessary speed for each individual rotor (Z327-K only).

More from **HERMLE**
Benchmark
a wide range of options



Universal Centrifuge Z 366 K

max. speed 16,000 rpm
max. volume 6 x 250 ml



Compact Centrifuge Z 207 A

max. speed 6,800 rpm
max. volume 8 x 15 ml

For more Information, please visit our website www.hermleusa.com

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