

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

200 ml
bottle

200 ml
conical

100 ml
RB Glass
40

85 ml
RB/OR
38



Length min./max. (mm)

Tubes per Rotor

Radius Correction (cm)

Order No. Adapter: Z327-200-___

112

4

without

120

4

0.0

A200

95/115

4

0.2

A100

95/108

4

0.2

A85

Volume

Tubes Ø in mm

50 ml
RB/OR
29

50 ml
conical
29

50 ml
skirted
29

25/30 ml
Universal
25

25/30 ml
RB/OR
25

15 ml
conical
17

15 ml
conical
17

15 ml
RB
17

5/7 ml
RB
13

5 ml
conical
17

1.5/2.0 ml
micro
11

6-10 ml
Vakut.®
16

1.8-7 ml
Vakut.®
13

50 ml
conical
29



Length min./max. (mm)

Tubes per rotor

Radius Correction (cm)

Order No. Adapter

95/103

4

0.2

A50R

116

4

0.1

A50

116

4

0.2

A50SS

95/105

4

0.2

A25

90/110

4

0.2

A30

120

16

0.1

A15B*

120

12

0.0

A15

60/107

28

0.2

A15R

65/100

32

0.2

A57

60/70

20

0.1

A5F

40

32

0.1

A20

100

28

0.2

A10

75/100

32

0.2

A57

116

8

0.0

B50

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

145 ml
Nalgene®
50

100 ml
RB Glass
44

85 ml
RB/OR
38

50 ml
RB Glass
29

50 ml
conical
29



Length min./max. (mm)

Tubes per rotor

Radius Correction (cm)

Order No. Adapter: Z306-100-___

100

4

1.0

A145

90/108

4

1.0

A100

90/108

4

0.8

A85

90/118

4

0.7

A50R

116

4

0.3

A50

Volume

Tubes Ø in mm

50 ml
Rim
29

30 ml
Universal
25

15 ml
conical
17

15 ml
RB
17

6-10 ml
Vakut.®
16

1.8-7 ml
Vakut.®
13

1.5/2.0 ml
micro
11



Length min./max. (mm)

Tubes per rotor

Radius Correction (cm)

Order No. Adapter

116

4

0.6

A50SS

95/105

4

1.1

A30

120

8

0.0

A15

90/108

28

0.4

A10

90/108

28

0.4

A10

75/100

28

0.7

A57

40

40

5.5

A20

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] Length [min./max.]:
17.0 95/115
17.0 120
13 75/100

Accessories Z327 and Z327-K

Rotor/Bucket

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

Adapter

Volume

15 ml conical

15 ml

4-7 ml Vakut.®

1.8-5 ml Vakut.®









17
120
without

17
105/120
without

13
100
C3100-ADP

13
75
C3100-ADP

Tubes Ø in mm

Length min./max. in mm

Order No. Adapter

Order No.:

Z326-0650



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

Volume

50 ml conical

50 ml RB/OR

15 ml conical

7 ml

5 ml











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

Tubes Ø in mm

Length min./max. in mm

Order No. Adapter

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.:	Adapter	Ø [mm]	Length [min./max.]:
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

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.:	Adapter	Ø [mm]	Length [min./max.]:
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

Order No.:

Z326-0485



Angle rotor 4 x 85 ml

Angle: 30°

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.]:
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



Angle rotor 6 x 50 ml (round)

Angle: 26°

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.]:
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		



Accessories Z327 and Z327-K

Rotor/Bucket		Adapter				
Order No.: Z326-2010  Angle rotor 20 x 10 ml Angle: 30°	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.: without	Adapter 1 x 10 ml	Ø [mm] 16	Length [min./max.] 80	
Order No.: Z326-3020H  Angle rotor 30 x 1.5/2.0 ml Angle: 45°	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.: without without 704.005 704.004	Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	Ø [mm] 11 11 8 6	Length [min./max.] 40 40 45 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.: without without C1008-A5-6 C1008-A2-6	Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	Ø [mm] 11 11 8 6	Length [min./max.] 40 40 45 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.: without without C1008-A5-6 C1008-A2-6	Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	Ø [mm] 11 11 8 6	Length [min./max.] 40 40 45 45	
Order No.: Z326-1220H  Angle rotor 12 x 1.5/2.0 ml Angle: 40°	Acceleration in s: 25/232 Deceleration in s: 20/308 max. speed: 18,000 rpm RCF-Value: 23,542 xg max. radius: 6.5 cm max. Ø: 11 mm Temp. at max. speed: -2°C	Order No.: Z36-04-HS Z36-05-HS Z36-20-HS	0.4 ml Tubes (Ø 6 x 45 mm) Adapter Kid (6 Pieces) 0.5 ml Tubes (Ø 8 x 32 mm) Adapter Kid (6 Pieces) 1.5 ml Adapter for full performance. (necessary from 16,000 xg) (6 Pieces)			
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.: without without C1008-A5-6 C1008-A2-6	Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	Ø [mm] 11 11 8 6	Length [min./max.] 40 40 45 45	

■ 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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