

# Universal Centrifuge

| Z307



**HERMLE**  
**Benchmark** 

4 x 200 ml

# Z307



The Z307 compact universal laboratory centrifuge offers a wide range of applications covering clinical, research, and industrial laboratory use. The Z307 offers many accessories, including rotors for microplates and high speed fixed angle rotors for microtubes and centrifuge tubes up to 50 ml. The swing out rotors can load all common tubes such as blood collection tubes, 15/50 ml tubes and even 200 ml tubes. This wide range of accessories makes the Z307 laboratory centrifuge indispensable in research laboratories and clinical hospital laboratories.

## Technical Data

max. Speed:	14,000 rpm
max. RCF:	18,624 xg
max. Volume:	4 x 200 ml
Speed range:	200 – 14,000 rpm
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 1 min increments
Dimensions:	14 in x 13 in x 18.6 in 35.5 cm x 33 cm x 47.4 cm (W x H x D)
Weight:	66 lbs / 30 kg
Order No:	Z307, 120 V 50 - 60 Hz / 240 W Z307-E, 230 V 50 - 60 Hz / 300 W



## Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- 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)
- Imbalance tolerant drive
- A large variety of rotors and accessories
- Manufactured according to international safety regulations, i.e. IEC 61010
- Audible signal at the end of each run with several melody options
- Rotor exchange is easy to handle
- Noise level under 63 dBA at max. speed
- Improved ventilation system keeps samples cool
- Stainless steel chamber

## 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 g-force, with increments of 10
- 10 acceleration and 10 deceleration rates, Possibility of brakeless deceleration
- Pre-selection of running time from 10 s to 99 h 59 min or continuous
- Storage of up to 99 runs incl. rotor type
- Quick-key for short runs
- Diagnostic program
- Color visual representation of the operating state such as run completed, standby or centrifugation

# Accessories Z307

## 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: 17/97  
Deceleration in s: 14/256  
max. Speed: 4,500 rpm  
RCF-value: 3,350 xg  
max. Radius: 14.8 cm

Volume

Tubes Ø in mm

200 ml  
Bottle  
56

200 ml  
conical  
56

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  
0.0  
without Adapter

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

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: Z327-200-\_\_\_\_

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

130  
4  
0.2  
A15L

100  
28  
0.2  
A10

75/100  
32  
0.2  
A57

116  
8  
0.0  
B50

\*only without Bucket Lid

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: 4000 rpm  
RCF-value: 2611 xg  
max. Radius: 14.6 cm

Volume

Tubes ø in mm

100 ml  
RB Glass  
40

85 ml  
RB/OR  
38

50 ml  
RB/OR  
29

50 ml  
Falcon®  
29



Length min./max. in mm

Tubes per rotor

Radius correction (cm)

Order-No.: Z326-100H-\_\_\_\_

90/108  
4  
0.9  
A100

90/108  
4  
0.6  
A85

90/133  
4  
0.6  
A50R

116  
4  
0.4  
A50

Volume

Tubes Ø in mm

50 ml  
skirted  
29

30 ml  
Universal  
25

15 ml  
Falcon®  
17

15 ml  
Falcon®  
17

15 ml  
RB Glass  
17

6-10 ml  
Vakut.®  
16

10-15 ml  
Vakut.®  
16

1.8-7 ml  
Vakut.®  
13

1.5 ml  
Reakt.  
11

50 ml  
Falcon®  
29

15 ml  
Falcon®  
17



Length min./max. (mm)

Tubes per rotor

Radius Correction (cm)

Order No. Tube rack

116  
4  
0.7  
A50SS

95/105  
4  
1.5  
A30

120  
4  
0.5  
A15S

120  
8  
0.5  
A15\*

90/108  
16  
0.6  
A15R

75/100  
16  
0.6  
A10

75/125  
4  
0.6  
A15L\*

75/100  
16  
0.6  
A57

42  
20  
0.6  
A20

116  
8  
0.0  
B50

120  
12  
0.0  
B15

\* only without bucket lid

Order No.:  
**Z306-100**



Swing out rotor 4 Places  
Angle: 0-90°

Acceleration in s: 13/110  
Deceleration in s: 18/158  
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  
skirted  
29

30 ml  
Universal  
25

15 ml  
conical  
17

15 ml  
RB  
17

6-10 ml  
Vakut.®  
16

1.8-7 ml  
Vakut.®  
13

5/7 ml  
RB Glass  
13

1.5/2.0 ml  
micro  
11



Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter: Z306-100-\_\_\_\_

116  
4  
0.6  
A50SS

95/105  
4  
1.1  
A30

120  
8  
0.0  
A15

90/108  
28  
0.4  
A57

90/108  
28  
0.4  
A10

75/100  
28  
0.7  
A57

75/100  
36  
1.3  
A57B

40  
40  
5.5  
A20

Order No.:  
**Z326-02MP**



Swing out rotor 2x3 Microplates  
Angle: 0-90°

Acceleration in s: 24/220  
Deceleration in s: 24/339  
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

Order No.:

BT1500-A1520

BT1500-A05

Z326-MPCA



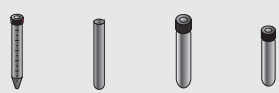






Tube rack

20 x 1.5 ml (2.0ml) Tubes


20 x 0.5 ml

3 x Chamber Slide or 30/60 mm petri dish

# Accessoires Z307

Rotor/Bucket		Adapter				
<div>Order No.: Z326-3015</div> <div></div> <div>Angle rotor 30 x 15 ml Glass or 20 x 15 ml conical Angle: 35°</div>	<div>Acceleration in s: 18/155 Deceleration in s: 18/369 max. Speed: 4,500 rpm RCF-value: 2,830 xg max. Radius: 12.5/10.9 cm max. Ø: 17 mm</div>	<div>Order No.: without without C3100-ADP</div>	<div>Adapter 1 x 15ml Glass 1 x 15ml conical 1 x 5/7ml</div>	<div>Ø [mm] 17.0 17.0 13</div>	<div>Length [min./max.]: 95/115 120 75/100</div>	
<div>Order No.: Z326-1215</div> <div></div> <div>Angle rotor 12 x 15 ml Angle: 32°</div>	<div>Acceleration in s: 13/101 Deceleration in s: 11/285 max. Speed: 6,000 rpm RCF-value: 4,427 xg max. Radius: 11.0 cm max. Ø: 17 mm</div>	<div>Volume</div> <div></div> <div>Tubes Ø in mm Length min./max. in mm Order No. Adapter</div>	<div>15 ml conical 15 ml 4-7ml Vakut.® 1.8-5 ml Vakut.®</div> <div>17 120 without 17 105/120 without 13 100 C3100-ADP 13 75 C3100-ADP</div>			
<div>Order No.: Z326-0650-LS</div> <div></div> <div>Angle rotor 6 x 50 ml Angle: 40°</div>	<div>Acceleration in s: 14/102 Deceleration in s: 11/304 max. Speed: 6,000 rpm RCF-value: 4,424 xg max. Radius: 11.0 cm max. Ø: 29 mm</div>	<div>Volume</div> <div></div> <div>Tubes Ø in mm Length min./max. in mm Order No. Adapter</div>	<div>50 ml conical 50 ml RB/OR 15 ml conical 7 ml 5 ml</div> <div>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</div>			
<div>Order No.: Z326-1205</div> <div></div> <div>Angle rotor 12 x 5 ml Tubes Angle: 45°</div>	<div>Acceleration in s: 27/238 Deceleration in s: 22/206 max. Speed: 14,000 rpm RCF-value: 18,624 xg max. Radius: 8.5 cm max. Ø: 11 mm</div>	<div>Order No.: without Z216-05-C10 Z216-05-C18</div>	<div>Adapter 1 x 5.0ml conical 1 x 1.0ml Cryo, flat 1 x 1.8ml Cryo, round</div>	<div>Ø [mm] 17 12.6 12.6</div>	<div>Length [min./max.]: 60 41 48</div>	
<div>Order No.: Z326-2420</div> <div></div> <div>Plastic-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</div>	<div>Acceleration in s: 23/207 Deceleration in s: 34/215 max. Speed: 14,000 rpm RCF-value: 18,624 xg max. Radius: 8.5 cm max. Ø: 11 mm</div>	<div>Order No.: without without C1008-A5-6 C1008-A2-6</div>	<div>Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</div>	<div>Ø [mm] 11 11 8 6</div>	<div>Length [min./max.]: 40 40 45 45</div>	
<div>Order No.: Z326-2420H</div> <div></div> <div>Aluminum-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</div>	<div>Acceleration in s: 23/206 Deceleration in s: 33/196 max. Speed: 14,000 rpm RCF-value: 18,624 xg max. Radius: 8.5 cm max. Ø: 11 mm</div>	<div>Order No.: without without C1008-A5-6 C1008-A2-6</div>	<div>Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</div>	<div>Ø [mm] 11 11 8 6</div>	<div>Length [min./max.]: 40 40 45 45</div>	
<div>Order No.: Z326-3020H</div> <div></div> <div>Angle rotor 30 x 1.5/2.0 ml Angle: 45°</div>	<div>Acceleration in s: 26/244 Deceleration in s: 33/349 max. Speed: 12,000 rpm RCF-value: 15,131 xg max. Radius: 9.4 cm max. Ø: 11 mm</div>	<div>Order No.: without without C1008-A5-6 C1008-A2-6</div>	<div>Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</div>	<div>Ø [mm] 11 11 8 6</div>	<div>Length [min./max.]: 40 40 45 45</div>	

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