

# 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 50ml. 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(WxHxD)
Weight:	66 lbs / 30 kg
Order No:	Z307, 120V 50 - 60Hz / 240W Z307-E, 230V 50 - 60Hz / 300W



## 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



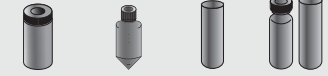
## Adapter

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	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
Tubes Ø in mm															
Length min./max. (mm)	95/103	116	116	95/105	90/110	120	120	60/107	65/100	60/70	40	130	100	75/100	116
Tubes per Rotor	4	4	4	4	4	16	12	28	32	20	32	4	28	32	8
Radius correction (cm)	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
Order No. Adapter: Z327-200-___	A50R	A50	A50SS	A25	A30	A15B*	A15	A10	A57	A5F	A20	A15L	A10	A57	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	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
Tubes Ø in mm											
Length min./max. (mm)	116	95/105	120	120	90/108	75/100	75/125	75/100	42	116	120
Tubes per Rotor	4	4	4	8	16	16	4	16	20	8	12
Radius Correction (cm)	0.7	1.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.0	0.0
Order No. Tube rack	A50SS	A30	A15S	A15*	A15R	A10	A15L*	A57	A20	B50	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	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
Tubes Ø in mm								
Length min./max. (mm)	116	95/105	120	90/108	90/108	75/100	75/100	40
Tubes per Rotor	4	4	8	28	28	28	36	40
Radius correction (cm)	0.6	1.1	0.0	0.4	0.4	0.7	1.3	5.5
Order No. Adapter: Z306-100-___	A50SS	A30	A15	A57	A10	A57	A57B	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																														
<p><b>Order No.:</b> Z326-3015</p>  <p>Angle rotor 30 x 15 ml Glass or 20 x 15 ml conical Angle: 35°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>without</td> <td>1 x 15ml Glass</td> <td>17.0</td> <td>95/115</td> </tr> <tr> <td>without</td> <td>1 x 15ml conical</td> <td>17.0</td> <td>120</td> </tr> <tr> <td>C3100-ADP</td> <td>1 x 5/7ml</td> <td>13</td> <td>75/100</td> </tr> </tbody> </table>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without	1 x 15ml Glass	17.0	95/115	without	1 x 15ml conical	17.0	120	C3100-ADP	1 x 5/7ml	13	75/100														
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without	1 x 15ml conical	17.0	120																												
C3100-ADP	1 x 5/7ml	13	75/100																												
<p><b>Order No.:</b> Z326-1215</p>  <p>Angle rotor 12 x 15 ml Angle: 32°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Volume</th> <th>15 ml conical</th> <th>15 ml</th> <th>4-7ml Vakut.®</th> <th>1.8-5 ml Vakut.®</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tubes Ø in mm</td> <td>17</td> <td>17</td> <td>13</td> <td>13</td> </tr> <tr> <td>Length min./max. in mm</td> <td>120</td> <td>105/120</td> <td>100</td> <td>75</td> </tr> <tr> <td>Order No. Adapter</td> <td>without</td> <td>without</td> <td>C3100-ADP</td> <td>C3100-ADP</td> </tr> </tbody> </table>	Volume	15 ml conical	15 ml	4-7ml Vakut.®	1.8-5 ml Vakut.®						Tubes Ø in mm	17	17	13	13	Length min./max. in mm	120	105/120	100	75	Order No. Adapter	without	without	C3100-ADP	C3100-ADP					
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Order No. Adapter	without	without	C3100-ADP	C3100-ADP																											
<p><b>Order No.:</b> Z326-0650-LS</p>  <p>Angle rotor 6 x 50 ml Angle: 40°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Volume</th> <th>50 ml conical</th> <th>50 ml RB/OR</th> <th>15 ml conical</th> <th>7 ml</th> <th>5 ml</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tubes Ø in mm</td> <td>29</td> <td>29</td> <td>17</td> <td>17</td> <td>18</td> </tr> <tr> <td>Length min./max. in mm</td> <td>116</td> <td>100/120</td> <td>120</td> <td>97/120</td> <td>100/105</td> </tr> <tr> <td>Order No. Adapter</td> <td>without</td> <td>without</td> <td>Z206-50-A15</td> <td>Z206-50-A57</td> <td>Z206-50-A57C* *with Z206-50-A57</td> </tr> </tbody> </table>	Volume	50 ml conical	50 ml RB/OR	15 ml conical	7 ml	5 ml							Tubes Ø in mm	29	29	17	17	18	Length min./max. in mm	116	100/120	120	97/120	100/105	Order No. Adapter	without	without	Z206-50-A15	Z206-50-A57	Z206-50-A57C* *with Z206-50-A57
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<p><b>Order No.:</b> Z326-1205</p>  <p>Angle rotor 12 x 5 ml Tubes Angle: 45°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>without</td> <td>1 x 5.0ml conical</td> <td>17</td> <td>60</td> </tr> <tr> <td>Z216-05-C10</td> <td>1 x 1.0ml Cryo, flat</td> <td>12.6</td> <td>41</td> </tr> <tr> <td>Z216-05-C18</td> <td>1 x 1.8ml Cryo, round</td> <td>12.6</td> <td>48</td> </tr> </tbody> </table>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without	1 x 5.0ml conical	17	60	Z216-05-C10	1 x 1.0ml Cryo, flat	12.6	41	Z216-05-C18	1 x 1.8ml Cryo, round	12.6	48														
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<p><b>Order No.:</b> Z326-2420</p>  <p>Plastic-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>without</td> <td>1 x 2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>without</td> <td>1 x 1.5 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>C1008-A5-6</td> <td>1 x 0.5 ml</td> <td>8</td> <td>45</td> </tr> <tr> <td>C1008-A2-6</td> <td>1 x 0.4/0.2 ml PCR</td> <td>6</td> <td>45</td> </tr> </tbody> </table>	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										
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<p><b>Order No.:</b> Z326-2420H</p>  <p>Aluminum-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>without</td> <td>1 x 2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>without</td> <td>1 x 1.5 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>C1008-A5-6</td> <td>1 x 0.5 ml</td> <td>8</td> <td>45</td> </tr> <tr> <td>C1008-A2-6</td> <td>1 x 0.4/0.2 ml PCR</td> <td>6</td> <td>45</td> </tr> </tbody> </table>	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										
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<p><b>Order No.:</b> Z326-3020H</p>  <p>Angle rotor 30 x 1.5/2.0 ml Angle: 45°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>without</td> <td>1 x 2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>without</td> <td>1 x 1.5 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>C1008-A5-6</td> <td>1 x 0.5 ml</td> <td>8</td> <td>45</td> </tr> <tr> <td>C1008-A2-6</td> <td>1 x 0.4/0.2 ml PCR</td> <td>6</td> <td>45</td> </tr> </tbody> </table>	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										
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