

# Universal Centrifuges

| Z 327

| Z 327 K



**HERMLE**  
LABORTECHNIK

4 x 200 ml

# Z 327

# Z 327 K



Z 327



Z 327 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 (Z 327 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 (Z 327)
- Stainless steel chamber

Both the table top centrifuge Z 327 and the refrigerated table top centrifuge Z 327 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 angled rotors is very simple and can take place in a matter of seconds. The Z 327 K includes the refrigeration system on the back side of the unit, optimized for the lab bench at only 40 cm width.

## 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  
 Z 327 K: -20°C bis 40°C  
 Running time: 59 min 50 s / 10 s increments  
 99 h 59 min / 1 min increments

Dimensions  
 Z 327: 40 cm x 36 cm x 48 cm (WxHxD)  
 Z 327 K: 40 cm x 36 cm x 70 cm (WxHxD)

Weight  
 Z 327 / Z 327 K: 43 kg / 60 kg

Power input:  
 Z 327 / Z 327 K: 460 W / 660 W

Order No.:  
 Z 327: 315.00 V01-Z 327, 230V / 50-60Hz  
 315.00 V02-Z 327, 120V / 50-60Hz  
 Z 327 K: 337.00 V01-Z 327 K, 230V / 50-60Hz  
 337.00 V02-Z 327 K, 120V / 50-60Hz



Z 327 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 g-force, with increments of 10
- 10 acceleration and 10 deceleration rates, Possibility of unbraked deceleration
- Preselection of the temperature from - 20°C to 40°C with 1°C increments (Z 327 K)
- Indication of the sample temperature (Z 327 K)
- Pre-cooling program option (Z 327 K)
- Standstill cooling (Z 327 K)
- 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
- Timer: the centrifuge starts at the preselected time

# Accessories Z 327 and Z 327 K

## Rotor/Bucket

Order No.:  
221.71 V20

Swing out rotor 4 place  
Angle: 0-90°

605.100  
Bucket for Adapter

605.102  
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  
Temp. at max. speed: 6°C

Volume

Tubes Ø in mm

200 ml  
bottle  
56

200 ml  
conical  
56

100 ml  
RB Glass  
40

85 ml  
RB/OR  
38

50 ml  
RB Glass  
34



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

112  
4  
0.0  
without

120  
4  
0.0  
705.100

95/115  
4  
0.2  
705.101

95/108  
4  
0.2  
705.102

95/118  
4  
0.2  
705.103

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.<sup>®</sup>  
16

1.8-7 ml  
Vakut.<sup>®</sup>  
13

50 ml  
conical  
29



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

95/103  
4  
0.2  
705.104

116  
4  
0.1  
705.105

116  
4  
0.2  
705.106

95/105  
4  
0.2  
705.107

90/110  
4  
0.2  
705.108

120  
16  
0.1  
705.109\*

120  
12  
0.0  
705.110

60/107  
28  
0.2  
705.111

65/100  
32  
0.2  
705.112

60/70  
20  
0.1  
705.113

40  
32  
0.1  
705.114

100  
28  
0.2  
705.111

75/100  
32  
0.2  
705.112

116  
8  
0.0  
605.103

\*only without bucket lid

Order No.:  
221.12 V20

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  
Temp. at max. speed: -2°C

Volume

Tubes Ø in mm

145 ml  
Nalgene<sup>®</sup>  
50

100 ml  
RB Glass  
44

85 ml  
RB/OR  
38

50 ml  
RB Glass  
34

50 ml  
RB Glass  
29

50 ml  
conical  
29



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

100  
4  
1.0  
626.017

90/108  
4  
1.0  
626.000

90/108  
4  
0.8  
626.001

92/118  
4  
0.7  
626.008

90/118  
4  
0.7  
626.009

116  
4  
0.3  
626.002

Volume  
Tubes Ø in mm

50 ml  
Rim  
29

30 ml  
Universal  
25

25 ml  
RB Glass  
25

15 ml  
conical  
17

15 ml  
RB  
17

5/7 ml  
RB Glass  
13

1.5/2.0 ml  
micro  
11

4.5 ml  
Sarstedt<sup>®</sup>  
12

5/7 ml  
13

6-10 ml  
Vakut.<sup>®</sup>  
16

1.8-7 ml  
Vakut.<sup>®</sup>  
13



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

116  
4  
0.6  
626.010

95/105  
4  
1.1  
626.011

95/110  
4  
0.5  
626.012

120  
8  
0.0  
626.003

90/108  
28  
0.4  
626.004

75/100  
36  
1.3  
626.005

40  
40  
5.5  
626.014

75/100  
36  
0.9  
626.007

65/80  
28  
3.3  
626.015

90/108  
28  
0.4  
626.004

75/100  
28  
0.7  
626.006

Order No.:  
221.16 V20

Swing out rotor 2x3 Microtitreplates  
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.:  
706.000

Tube rack  
48 x 1.5 ml (2.0 ml)  
Tubes

Order No.:  
221.19 V20

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  
701.011  
701.012  
701.015  
701.018

Adapter  
1 x 15 ml Glass  
1 x 15 ml conical  
1 x 7 ml  
1 x 5 ml (RIA)  
1 x 1.5/2.0 ml  
1 x 4.5-10 ml Sarstedt<sup>®</sup>  
Ø [mm]  
17.0  
17.0  
13.5  
13.5  
11  
11-16  
Length [min./max.]:  
95/115  
120  
95/115  
70/90  
40  
90/92

# Accessories Z 327 and Z 327 K

Rotor/Bucket	Adapter																																				
<p>Order No.: 221.54 V20</p>  <p>Angle rotor 12x 15 ml Angle: 32°</p>	<p>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</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> <th>1.5/2.0 ml</th> <th>6-10 ml Sarstedt®/Vakut.®</th> </tr> </thead> <tbody> <tr> <td> Tubes Ø in mm</td> <td>17</td> <td>17</td> <td>13</td> <td>13</td> <td>11</td> <td>16</td> </tr> <tr> <td> Length min./max. in mm</td> <td>120</td> <td>105/120</td> <td>100</td> <td>75</td> <td>40</td> <td>92/107</td> </tr> <tr> <td> Order No. Adapter</td> <td>without</td> <td>without</td> <td>701.011</td> <td>701.012</td> <td>701.015</td> <td>701.018</td> </tr> </tbody> </table>	Volume	15 ml conical	15 ml	4-7ml Vakut.®	1.8-5 ml Vakut.®	1.5/2.0 ml	6-10 ml Sarstedt®/Vakut.®	Tubes Ø in mm	17	17	13	13	11	16	Length min./max. in mm	120	105/120	100	75	40	92/107	Order No. Adapter	without	without	701.011	701.012	701.015	701.018								
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<p>Order No.: 221.55 V20</p>  <p>Angle rotor 6x50 ml Angle: 40°</p>	<p>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</p> <table border="1"> <thead> <tr> <th>Volume</th> <th>50 ml conical</th> <th>50 ml RB/OR</th> <th>30ml</th> <th>16 ml</th> <th>15 ml conical</th> <th>15 ml RB</th> </tr> </thead> <tbody> <tr> <td> Tubes Ø in mm</td> <td>29</td> <td>29</td> <td>25</td> <td>18</td> <td>17</td> <td>17</td> </tr> <tr> <td> Length min./max. in mm</td> <td>116</td> <td>100/120</td> <td>92/95</td> <td>100/105</td> <td>120</td> <td>97/120</td> </tr> <tr> <td> Order No. Adapter</td> <td>without</td> <td>without</td> <td>708.019</td> <td>708.003</td> <td>708.030</td> <td>708.030</td> </tr> </tbody> </table>	Volume	50 ml conical	50 ml RB/OR	30ml	16 ml	15 ml conical	15 ml RB	Tubes Ø in mm	29	29	25	18	17	17	Length min./max. in mm	116	100/120	92/95	100/105	120	97/120	Order No. Adapter	without	without	708.019	708.003	708.030	708.030								
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<p>Order No.: 220.78 V21</p>  <p>Angle rotor 6x85 ml Angle: 25°</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 85 ml</td> <td>38</td> <td>113</td> </tr> <tr> <td>707.003</td> <td>1 x 50 ml</td> <td>29</td> <td>105</td> </tr> <tr> <td>707.004</td> <td>1 x 50 ml conical</td> <td>29</td> <td>116</td> </tr> <tr> <td>707.002</td> <td>1 x 30 ml</td> <td>25</td> <td>90/103</td> </tr> <tr> <td>707.015</td> <td>1 x 16 ml</td> <td>18</td> <td>103/110</td> </tr> <tr> <td>707.000</td> <td>2 x 15 ml</td> <td>17</td> <td>95/100</td> </tr> <tr> <td>707.001</td> <td>1 x 15 ml</td> <td>17</td> <td>103/110</td> </tr> <tr> <td>707.014</td> <td>1 x 15 ml conical</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <p>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</p>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without	1 x 85 ml	38	113	707.003	1 x 50 ml	29	105	707.004	1 x 50 ml conical	29	116	707.002	1 x 30 ml	25	90/103	707.015	1 x 16 ml	18	103/110	707.000	2 x 15 ml	17	95/100	707.001	1 x 15 ml	17	103/110	707.014	1 x 15 ml conical	17	120
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<p>Order No.: 221.20 V20</p>  <p>Angle rotor 4x85 ml Angle: 30°</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 85 ml</td> <td>38</td> <td>113</td> </tr> <tr> <td>707.003</td> <td>1 x 50 ml</td> <td>29</td> <td>105</td> </tr> <tr> <td>707.004</td> <td>1 x 50 ml conical*</td> <td>29</td> <td>116</td> </tr> <tr> <td>707.002</td> <td>1 x 30 ml</td> <td>25</td> <td>90/103</td> </tr> <tr> <td>707.015</td> <td>1 x 16 ml</td> <td>18</td> <td>103/110</td> </tr> <tr> <td>707.000</td> <td>2 x 15 ml</td> <td>17</td> <td>95/100</td> </tr> <tr> <td>707.001</td> <td>1 x 15 ml</td> <td>17</td> <td>103/110</td> </tr> <tr> <td>707.014</td> <td>1 x 15 ml conical*</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <p>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</p> <p>*only without rotor lid</p>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without	1 x 85 ml	38	113	707.003	1 x 50 ml	29	105	707.004	1 x 50 ml conical*	29	116	707.002	1 x 30 ml	25	90/103	707.015	1 x 16 ml	18	103/110	707.000	2 x 15 ml	17	95/100	707.001	1 x 15 ml	17	103/110	707.014	1 x 15 ml conical*	17	120
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# Accessories Z 327 and Z 327 K

Rotor/Bucket	Adapter			
<p><b>Order No.:</b> 221.28 V21</p>  <p>Angle rotor 20 x 10 ml Angle: 30°</p>	<p>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</p>	<p><b>Order No.:</b> without</p>	<p><b>Adapter</b> 1 x 10 ml</p>	<p>Ø [mm]      Length [min./max.]: 16              80</p>
<p><b>Order No.:</b> 221.17 V21</p>  <p>Angle rotor 30 x 1.5/2.0 ml Angle: 45°</p>	<p>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</p>	<p><b>Order No.:</b> without without 704.005 704.004</p>	<p><b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</p>	<p>Ø [mm]      Length [min./max.]: 11              40 11              40 8                45 6                45</p>
<p><b>Order No.:</b> 220.87 V22</p>  <p>PPS-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</p>	<p>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</p>	<p><b>Order No.:</b> without without 704.005 704.004</p>	<p><b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</p>	<p>Ø [mm]      Length [min./max.]: 11              40 11              40 8                45 6                45</p>
<p><b>Order No.:</b> 220.87 V20</p>  <p>Alu-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45°   hermetically sealed</p>	<p>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</p>	<p><b>Order No.:</b> without without 704.005 704.004</p>	<p><b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</p>	<p>Ø [mm]      Length [min./max.]: 11              40 11              40 8                45 6                45</p>
<p><b>Order No.:</b> 221.23 V20</p>  <p>Angle rotor 12 x 1.5/2.0 ml Angle: 40°</p>	<p>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</p>	<p><b>Order No.:</b> 704.004  704.005  704.011</p>	<p>0.4 ml Tubes (Ø6 x 45 mm) Adapter Kid (6 Pieces)  0.5 ml Tubes (Ø8 x 32 mm) Adapter Kid (6 Pieces)  1.5 ml Adapter for full performance. (necessary from 16,000 xg) (6 Pieces)</p>	
<p><b>Order No.:</b> 221.68 V20</p>  <p>Angle rotor 44 x 1.5/2.0 ml Angle: 32°/55°</p>	<p>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</p>	<p><b>Order No.:</b> without without 704.005 704.004</p>	<p><b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR</p>	<p>Ø [mm]      Length [min./max.]: 11              40 11              40 8                45 6                45</p>



# Accessories Z 327 and Z 327 K

Rotor/Bucket		Adapter			
<p>Order No.: 221.38 V20</p>  <p>Angle rotor 4 x 8-place PCR Stripes Angle: 45°</p>	<p>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</p>				
<p>Order No.: 221.35 V20</p>  <p>Angle rotor 12 x 5 ml Tubes Angle: 45°</p>	<p>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</p>	<p>Order No.:</p>	<p>Adapter</p>	<p>Ø [mm]</p>	<p>Length [min./max.]</p>
		without	1 x 5.0 ml conical	17	60
		701.015	1 x 1.5/2.0 ml	11	40
		701.016	1 x 1.0 ml Cryo, flat	12.6	41
		701.017	1 x 1.8 ml Cryo, round	12.6	48
<p>Order No.: 221.52 V20</p>  <p>Angle rotor 10 x 50 ml conical Angle: 38°</p>	<p>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</p>	<p>Order No.:</p>	<p>Adapter</p>	<p>Ø [mm]</p>	<p>Length [min./max.]</p>
		708.050	1 x 15 ml RB	17	97/123
		701.011*	1 x 7 ml	13.5	95/115
		701.012*	1 x 5 ml	13.5	70/90
		701.015*	1 x 1.5/2.0 ml	11	42
		708.051	1 x 15 ml conical	17	120

\*only possible with adapter 708.050



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



## 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 Z 327 and Z 327 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 221.71 V20 are hermetically sealable.

### Efficient and Versatile:

- Due to the wide range of adapter and rotor options, models Z 327 and Z 327 K can hold all common tubes and bottles, up to 200 ml.
- Due to the easy rotor exchange, you can switch between different kinds of rotors like swing-out, microlitre, microtitre or big volume fixed angle rotors.
- Despite the high capacity, the design of these devices is compact and space saving, even the Z 327 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 (only Z 327 K).

## More from HERMLE - 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.hermle-labortechnik.de](http://www.hermle-labortechnik.de)

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