

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	200 ml bottle 56	200 ml conical 56	100 ml RB Glass 40	85 ml RB/OR 38	50 ml RB Glass 34
Tubes Ø in mm					
Length min./max. (mm)	112	120	95/115	95/108	95/118
Tubes per Rotor	4	4	4	4	4
Radius Correction (cm)	0.0	0.0	0.2	0.2	0.2
Order No. Adapter	without	705.100	705.101	705.102	705.103

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	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	100	75/100	116
Tubes per rotor	4	4	4	4	4	16	12	28	32	20	32	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	0.0
Order No. Adapter	705.104	705.105	705.106	705.107	705.108	705.109*	705.110	705.111	705.112	705.113	705.114	705.111	705.112	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	145 ml Nalgene [®] 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
Tubes Ø in mm						
Length min./max. (mm)	100	90/108	90/108	92/118	90/118	116
Tubes per rotor	4	4	4	4	4	4
Radius Correction (cm)	1.0	1.0	0.8	0.7	0.7	0.3
Order No. Adapter	626.017	626.000	626.001	626.008	626.009	626.002

Volume	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 [®] 12	5/7 ml 13	6-10 ml Vakut. [®] 16	1.8-7 ml Vakut. [®] 13
Tubes Ø in mm											
Length min./max. (mm)	116	95/105	95/110	120	90/108	75/100	40	75/100	65/80	90/108	75/100
Tubes per rotor	4	4	4	8	28	36	40	36	28	28	28
Radius Correction (cm)	0.6	1.1	0.5	0.0	0.4	1.3	5.5	0.9	3.3	0.4	0.7
Order No. Adapter	626.010	626.011	626.012	626.003	626.004	626.005	626.014	626.007	626.015	626.004	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.:	Adapter	Ø [mm]	Length [min./max.]:
without	1 x 15 ml Glass	17.0	95/115
without	1 x 15 ml conical	17.0	120
701.011	1 x 7 ml	13.5	95/115
701.012	1 x 5 ml (RIA)	13.5	70/90
701.015	1 x 1.5/2.0 ml	11	40
701.018	1 x 4.5-10 ml Sarstedt [®]	11-16	90/92

Accessories Z 327 and Z 327 K




Rotor/Bucket	Adapter																																																																																																			
<p>Order No.: 221.54 V20</p>  <p>Angle rotor 12x15ml Angle: 32°</p>	<p>Acceleration in s: 18/103 Deceleration in s: 12/356 max. speed: 6,000rpm RCF-Value: 4,427xg max. radius: 11.0cm max. Ø: 17mm 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></td> <td></td> <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> <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																																																																
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																																																																																														
<p>Order No.: 221.55 V20</p>  <p>Angle rotor 6x50ml Angle: 40°</p>	<p>Acceleration in s: 15/102 Deceleration in s: 11/486 max. speed: 6,000rpm RCF-Value: 4,427xg max. radius: 11.0cm max. Ø: 29mm 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></td> <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>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																																																																
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																																																																																														
<p>Order No.: 220.78 V21</p>  <p>Angle rotor 6x85ml Angle: 25°</p>	<table border="1"> <thead> <tr> <th>Acceleration in s:</th> <th>Deceleration in s:</th> <th>max. speed:</th> <th>RCF-Value:</th> <th>max. radius:</th> <th>max. Ø:</th> <th>Temp. at max. speed:</th> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>65/399</td> <td>38/988</td> <td>11,000 rpm</td> <td>13,932xg</td> <td>10.3 cm</td> <td>38 mm</td> <td>15°C</td> <td>without</td> <td>1 x 85 ml</td> <td>38</td> <td>113</td> </tr> <tr> <td>98/495</td> <td>47/1,068</td> <td>13,500 rpm</td> <td>20,984xg</td> <td>10.3 cm</td> <td>38 mm</td> <td>15°C</td> <td>707.003</td> <td>1 x 50 ml</td> <td>29</td> <td>105</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.004</td> <td>1 x 30 ml conical</td> <td>29</td> <td>116</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.002</td> <td>1 x 30 ml</td> <td>25</td> <td>90/103</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.015</td> <td>1 x 16 ml</td> <td>18</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.000</td> <td>2 x 15 ml</td> <td>17</td> <td>95/100</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.001</td> <td>1 x 15 ml</td> <td>17</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.014</td> <td>1 x 15 ml conical</td> <td>17</td> <td>120</td> </tr> </tbody> </table>	Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	65/399	38/988	11,000 rpm	13,932xg	10.3 cm	38 mm	15°C	without	1 x 85 ml	38	113	98/495	47/1,068	13,500 rpm	20,984xg	10.3 cm	38 mm	15°C	707.003	1 x 50 ml	29	105								707.004	1 x 30 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
Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:																																																																																										
65/399	38/988	11,000 rpm	13,932xg	10.3 cm	38 mm	15°C	without	1 x 85 ml	38	113																																																																																										
98/495	47/1,068	13,500 rpm	20,984xg	10.3 cm	38 mm	15°C	707.003	1 x 50 ml	29	105																																																																																										
							707.004	1 x 30 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																																																																																										
<p>Order No.: 221.18 V21</p>  <p>Angle rotor 6x85ml Angle: 38°</p>	<table border="1"> <thead> <tr> <th>Acceleration in s:</th> <th>Deceleration in s:</th> <th>max. speed:</th> <th>RCF-Value:</th> <th>max. radius:</th> <th>max. Ø:</th> <th>Temp. at max. speed:</th> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>62/412</td> <td>34/1,310</td> <td>9,000 rpm</td> <td>10,413xg</td> <td>11.5 cm</td> <td>38 mm</td> <td>1°C</td> <td>without</td> <td>1 x 85 ml</td> <td>38</td> <td>113</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.003</td> <td>1 x 50 ml</td> <td>29</td> <td>105</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.004</td> <td>1 x 50 ml conical</td> <td>29</td> <td>116</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.002</td> <td>1 x 30 ml</td> <td>25</td> <td>90/103</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.015</td> <td>1 x 16 ml</td> <td>18</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.000</td> <td>2 x 15 ml</td> <td>17</td> <td>95/100</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.001</td> <td>1 x 15 ml</td> <td>17</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.014</td> <td>1 x 15 ml conical</td> <td>17</td> <td>120</td> </tr> </tbody> </table>	Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	62/412	34/1,310	9,000 rpm	10,413xg	11.5 cm	38 mm	1°C	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
Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:																																																																																										
62/412	34/1,310	9,000 rpm	10,413xg	11.5 cm	38 mm	1°C	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																																																																																										
<p>Order No.: 221.20 V20</p>  <p>Angle rotor 4x85ml Angle: 30°</p>	<table border="1"> <thead> <tr> <th>Acceleration in s:</th> <th>Deceleration in s:</th> <th>max. speed:</th> <th>RCF-Value:</th> <th>max. radius:</th> <th>max. Ø:</th> <th>Temp. at max. speed:</th> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>68/307</td> <td>34/1,102</td> <td>12,000 rpm</td> <td>14,809xg</td> <td>9.2 cm</td> <td>38 mm</td> <td>3°C</td> <td>without</td> <td>1 x 85 ml</td> <td>38</td> <td>113</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.003</td> <td>1 x 50 ml</td> <td>29</td> <td>105</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.004</td> <td>1 x 50 ml conical*</td> <td>29</td> <td>116</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.002</td> <td>1 x 30 ml</td> <td>25</td> <td>90/103</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.015</td> <td>1 x 16 ml</td> <td>18</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.000</td> <td>2 x 15 ml</td> <td>17</td> <td>95/100</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.001</td> <td>1 x 15 ml</td> <td>17</td> <td>103/110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.014</td> <td>1 x 15 ml conical*</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <p>*only without rotor lid</p>	Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	68/307	34/1,102	12,000 rpm	14,809xg	9.2 cm	38 mm	3°C	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
Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:																																																																																										
68/307	34/1,102	12,000 rpm	14,809xg	9.2 cm	38 mm	3°C	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																																																																																										
<p>Order No.: 221.22 V21</p>  <p>Angle rotor 6x50ml Angle: 26°</p>	<table border="1"> <thead> <tr> <th>Acceleration in s:</th> <th>Deceleration in s:</th> <th>max. speed:</th> <th>RCF-Value:</th> <th>max. radius:</th> <th>max. Ø:</th> <th>Temp. at max. speed:</th> <th>Order No.:</th> <th>Adapter</th> <th>Ø [mm]</th> <th>Length [min./max.]:</th> </tr> </thead> <tbody> <tr> <td>44/358</td> <td>26/772</td> <td>12,000 rpm</td> <td>13,522xg</td> <td>8.4 cm</td> <td>29 mm</td> <td>4°C</td> <td>without</td> <td>1 x 50 ml round</td> <td>29</td> <td>95/115</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>708.019</td> <td>1 x 30 ml</td> <td>25</td> <td>92/95</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>708.003</td> <td>1 x 16 ml</td> <td>18</td> <td>100/105</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>708.004</td> <td>1 x 15 ml</td> <td>17</td> <td>100/105</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>708.017</td> <td>1 x 15 ml conical*</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <p>*only without rotor lid</p>	Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	44/358	26/772	12,000 rpm	13,522xg	8.4 cm	29 mm	4°C	without	1 x 50 ml round	29	95/115								708.019	1 x 30 ml	25	92/95								708.003	1 x 16 ml	18	100/105								708.004	1 x 15 ml	17	100/105								708.017	1 x 15 ml conical*	17	120																																	
Acceleration in s:	Deceleration in s:	max. speed:	RCF-Value:	max. radius:	max. Ø:	Temp. at max. speed:	Order No.:	Adapter	Ø [mm]	Length [min./max.]:																																																																																										
44/358	26/772	12,000 rpm	13,522xg	8.4 cm	29 mm	4°C	without	1 x 50 ml round	29	95/115																																																																																										
							708.019	1 x 30 ml	25	92/95																																																																																										
							708.003	1 x 16 ml	18	100/105																																																																																										
							708.004	1 x 15 ml	17	100/105																																																																																										
							708.017	1 x 15 ml conical*	17	120																																																																																										

Accessories Z 327 and Z 327 K

Rotor/Bucket	Adapter			
<p>Order No.: 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>Order No.: without</p>	<p>Adapter 1 x 10 ml</p>	<p>Ø [mm] 16</p> <p>Length [min./max.]: 80</p>
<p>Order No.: 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>Order No.: without without 704.005 704.004</p>	<p>Adapter 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] 11 11 8 6</p> <p>Length [min./max.]: 40 40 45 45</p>
<p>Order No.: 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>Order No.: without without 704.005 704.004</p>	<p>Adapter 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] 11 11 8 6</p> <p>Length [min./max.]: 40 40 45 45</p>
<p>Order No.: 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>Order No.: without without 704.005 704.004</p>	<p>Adapter 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] 11 11 8 6</p> <p>Length [min./max.]: 40 40 45 45</p>
<p>Order No.: 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>Order No.: 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>Order No.: 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>Order No.: without without 704.005 704.004</p>	<p>Adapter 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] 11 11 8 6</p> <p>Length [min./max.]: 40 40 45 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>	<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 5.0 ml conical</td> <td>17</td> <td>60</td> </tr> <tr> <td>701.015</td> <td>1 x 1.5/2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>701.016</td> <td>1 x 1.0 ml Cryo, flat</td> <td>12.6</td> <td>41</td> </tr> <tr> <td>701.017</td> <td>1 x 1.8 ml Cryo, round</td> <td>12.6</td> <td>48</td> </tr> </tbody> </table> <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>	Order No.:	Adapter	Ø [mm]	Length [min./max.]	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				
Order No.:	Adapter	Ø [mm]	Length [min./max.]																						
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>	<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>708.050</td> <td>1 x 15 ml RB</td> <td>17</td> <td>97/123</td> </tr> <tr> <td>701.011*</td> <td>1 x 7 ml</td> <td>13.5</td> <td>95/115</td> </tr> <tr> <td>701.012*</td> <td>1 x 5 ml</td> <td>13.5</td> <td>70/90</td> </tr> <tr> <td>701.015*</td> <td>1 x 1.5/2.0 ml</td> <td>11</td> <td>42</td> </tr> <tr> <td>708.051</td> <td>1 x 15 ml conical</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <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>*only possible with adapter 708.050 or adapter 708.051</p>	Order No.:	Adapter	Ø [mm]	Length [min./max.]	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
Order No.:	Adapter	Ø [mm]	Length [min./max.]																						
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																						



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

HERMLE Labortechnik GmbH
Siemensstr. 25 | 78564 Wehingen, DE
E-Mail: info@hermleLT.de
Visit us at: www.hermle-labortechnik.de
Telephone: +49 74 26/96 22-0 Telefax: +49 74 26/96 22-49

HERMLE
LABORTECHNIK

