

Universal Centrifuge

| Z 307



HERMLE
LABORTECHNIK

4 x 200 ml

Z 307



The small, universal laboratory centrifuge offers a wide range of applications, which covers clinical laboratory requirements, research, as well as industrial laboratory use. The Z 307 offers many accessories, including rotors for microtitreplates and high speed fixed angle rotors for micro tubes or centrifuge tubes up to 50ml. The swing out rotors can load all common tubes by means of appropriate adapters, e.g. blood collection tubes or conical 15/50ml tubes. This wide range of accessories makes the Z 307 laboratory centrifuge indispensable in research laboratories and small 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:	35.5 cm x 33 cm x 47.4 cm (W x H x D)
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Weight:	30 kg
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Order No:	307.00 V01 - Z 307, 230 V 50 - 60 Hz / 240 W 307.00 V02 - Z 307, 120 V 50 - 60 Hz / 300 W
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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 unbraked 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 Z 307

Rotor/Bucket		Adapter					
<p>Order No.: 221.71 V20</p> <p>Swing out rotor 4 Places Angle: 0-90°</p> <p>605.100 Bucket for Adapter</p> <p>605.102 Lid for Bucket I hermetically sealed</p> 	<p>Acceleration in s: 17/97 Deceleration in s: 14/256 max. Speed: 4,500 rpm RCF-value: 3,350xg max. Radius: 14.8 cm</p>	<p>Volume</p> <p>Tubes Ø in mm</p>	<p>200 ml Bottle 56</p> 	<p>200 ml conical 56</p> 	<p>100 ml RB Glass 40</p> 	<p>85 ml RB/OR 38</p> 	<p>50 ml RB Glass 34</p> 
		<p>Length min./max. (mm)</p> <p>Tubes per rotor</p> <p>Radius correction (cm)</p> <p>Order No. Adapter</p>	<p>112 4 0.0 without Adapter</p>	<p>120 4 0.0 705.100</p>	<p>95/115 4 0.2 705.101</p>	<p>95/108 4 0.2 705.102</p>	<p>95/118 4 0.2 705.103</p>


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

<p>Order No.: 221.12 V20</p>  <p>Swing out rotor 4 Places Angle: 0-90°</p>	<p>Acceleration in s: 13/110 Deceleration in s: 18/158 max. Speed: 4,500 rpm RCF-value: 3,350xg max. Radius: 14.8 cm</p>	<p>Volume</p> <p>Tubes Ø in mm</p>	<p>145 ml Nalgene® 50</p> 	<p>100 ml RB Glass 44</p> 	<p>85 ml RB/OR 38</p> 	<p>50 ml RB Glass 34</p> 	<p>50 ml RB Glass 29</p> 	<p>50 ml conical 29</p> 
		<p>Length min./max. (mm)</p> <p>Tubes per Rotor</p> <p>Radius correction (cm)</p> <p>Order No. Adapter</p>	<p>100 4 1.0 626.017</p>	<p>90/108 4 1.0 626.000</p>	<p>90/108 4 0.8 626.001</p>	<p>92/118 4 0.7 626.008</p>	<p>90/118 4 0.7 626.009</p>	<p>116 4 0.3 626.002</p>







Volume	50 ml skirted 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

<p>Order No.: 221.16 V20</p>  <p>Swing out rotor 2x3 Microtitreplates Angle: 0-90°</p>	<p>Acceleration in s: 24/220 Deceleration in s: 24/339 max. Speed: 4,500 rpm RCF-value: 2,716xg max. Radius: 12.0 cm max. Loading height: 63 mm max. Loading weight: 310 g</p>	<p>Order No.: 706.000</p> <p>Tube rack 48 x 1.5 ml (2.0 ml) Tubes</p>
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<p>Order No.: 220.50 V20</p>  <p>Swing out rotor 2x3 Microtitreplates Angle: 0-90°</p>	<p>Acceleration in s: 13/114 Deceleration in s: 17/252 max. Speed: 3,500 rpm RCF-value: 1,424xg max. Radius: 10.4 cm max. Loading height: 63 mm max. Loading weight: 310 g</p>	<p>Order No.: 706.000</p> <p>Tube rack 48 x 1.5 ml (2.0 ml) Tubes</p>
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<p>Order No.: 221.19 V20</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: 2,830xg max. Radius: 12.5/10.9 cm max. Ø: 17 mm</p>	<p>Order No.:</p> <p>without Adapter</p> <p>without Adapter</p> <p>701.011</p> <p>701.012</p> <p>701.015</p> <p>701.018</p>	<p>Adapter</p> <p>1 x 15 ml Glass</p> <p>1 x 15 ml conical</p> <p>1 x 7 ml</p> <p>1 x 5 ml (RIA)</p> <p>1 x 1.5/2.0 ml</p> <p>1 x 4.5-10 ml Sarstedt®</p>	<p>Ø [mm]</p> <p>17.0</p> <p>17.0</p> <p>13.5</p> <p>13.5</p> <p>11</p> <p>11-16</p>	<p>Length [min./max.]:</p> <p>95/115</p> <p>120</p> <p>95/115</p> <p>70/90</p> <p>40</p> <p>90/92</p>
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Accessoires Z 307

Rotor/Bucket	Adapter																												
<p>Order No.: 221.54 V20</p>  <p>Angle rotor 12x 15ml 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> <th>1.5/2.0 ml</th> <th>6-10 ml Sarstedt®/Vakut.®</th> </tr> </thead> <tbody> <tr> <td>Ø Tubes 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.®	Ø Tubes 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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Order No. Adapter	without	without	701.011	701.012	701.015	701.018																							
<p>Order No.: 221.55 V20</p>  <p>Angle rotor 6x 50ml 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>30ml</th> <th>16 ml</th> <th>15 ml conical</th> <th>15 ml RB</th> </tr> </thead> <tbody> <tr> <td>Ø Tubes 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	Ø Tubes 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.: 220.87 V22</p>  <p>PPS-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed</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 Adapter</td> <td>1 x 2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>without Adapter</td> <td>1 x 1.5 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>704.005</td> <td>1 x 0.5 ml</td> <td>8</td> <td>45</td> </tr> <tr> <td>704.004</td> <td>1 x 0.4/0.2 ml PCR</td> <td>6</td> <td>45</td> </tr> </tbody> </table> <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>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without Adapter	1 x 2.0 ml	11	40	without Adapter	1 x 1.5 ml	11	40	704.005	1 x 0.5 ml	8	45	704.004	1 x 0.4/0.2 ml PCR	6	45								
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<p>Order No.: 221.17 V21</p>  <p>Angle rotor 30x 1.5/2.0 ml 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 Adapter</td> <td>1 x 2.0 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>without Adapter</td> <td>1 x 1.5 ml</td> <td>11</td> <td>40</td> </tr> <tr> <td>704.005</td> <td>1 x 0.5 ml</td> <td>8</td> <td>45</td> </tr> <tr> <td>704.004</td> <td>1 x 0.4/0.2 ml PCR</td> <td>6</td> <td>45</td> </tr> </tbody> </table> <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>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	without Adapter	1 x 2.0 ml	11	40	without Adapter	1 x 1.5 ml	11	40	704.005	1 x 0.5 ml	8	45	704.004	1 x 0.4/0.2 ml PCR	6	45								
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