

Universal Centrifuges

| Z 327

| Z 327 K



HERMLE
LABORTECHNIK

4 x 200 ml

Z 327

Z 327 K



Z 327



Z 327 K

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

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

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.[®]
16

1.8-7 ml
Vakut.[®]
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[®]
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[®]
12

5/7 ml
13

6-10 ml
Vakut.[®]
16

1.8-7 ml
Vakut.[®]
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 30x 15 ml Glass
or 20x 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[®]

Ø [mm] Length [min./max.]:
17.0 95/115
17.0 120
13.5 95/115
13.5 70/90
11 40
11-16 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>4-7 ml 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	4-7 ml 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 6x 50 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>30 ml</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	30 ml	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 6x 85 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 4x 85 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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<p>Order No.: 221.22 V21</p>  <p>Angle rotor 6x 50 ml Angle: 26°</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 50 ml round</td> <td>29</td> <td>95/115</td> </tr> <tr> <td>708.019</td> <td>1 x 30 ml</td> <td>25</td> <td>92/95</td> </tr> <tr> <td>708.003</td> <td>1 x 16 ml</td> <td>18</td> <td>100/105</td> </tr> <tr> <td>708.004</td> <td>1 x 15 ml</td> <td>17</td> <td>100/105</td> </tr> <tr> <td>708.017</td> <td>1 x 15 ml conical*</td> <td>17</td> <td>120</td> </tr> </tbody> </table> <p>Acceleration in s: 44/358 Deceleration in s: 26/772 max. speed: 12,000 rpm RCF-Value: 13,522 xg max. radius: 8.4 cm max. Ø: 29 mm Temp. at max. speed: 4°C</p> <p>*only without rotor lid</p>	Order No.:	Adapter	Ø [mm]	Length [min./max.]:	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												
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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)</p> <p>0.5 ml Tubes (Ø8 x 32 mm) Adapter Kid (6 Pieces)</p> <p>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>	<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.: 701.015 701.016 701.017</p>	<p>Adapter 1 x 5.0 ml conical 1 x 1.5/2.0 ml 1 x 1.0 ml Cryo, flat 1 x 1.8 ml Cryo, round</p>	<p>Ø [mm] 17 11 12.6 12.6</p>	<p>Length [min./max.] 60 40 41 48</p>
<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.: 708.050 701.011* 701.012* 701.015* 708.051</p>	<p>Adapter 1 x 15 ml RB 1 x 7 ml 1 x 5 ml 1 x 1.5/2.0 ml 1 x 15 ml conical</p>	<p>Ø [mm] 17 13.5 13.5 11 17</p>	<p>Length [min./max.] 97/123 95/115 70/90 42 120</p>

*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 16,000rpm
max. volume 6 x 250ml



Compact Centrifuge Z 207 A
max. speed 6,800rpm
max. volume 8 x 15ml

For more Information, please visit our website www.hermle-labortechnik.de

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