

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

Order No.:
221.71 V20

Swing out rotor 4 Places
Angle: 0-90°

605.100
Bucket for Adapter

605.102
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

Length min./max. (mm)

Tubes per rotor

Radius correction (cm)

Order No. Adapter

200 ml
Bottle
56

200 ml
conical
56

100 ml
RB Glass
40

85 ml
RB/OR
38

50 ml
RB Glass
34



112
4
0.0
without Adapter

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

Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter

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



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

Order No.:
221.12 V20

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

Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter

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



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

Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter

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



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°



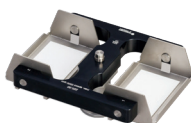
Acceleration in s: 24/220
Deceleration in s: 24/339
max. Speed: 4,500 rpm
RCF-value: 2,716 xg
max. Radius: 12.0 cm
max. Loading height: 63 mm
max. Loading weight: 310 g

Order No.:
706.000

Tube rack
48 x 1.5 ml (2.0 ml)
Tubes

Order No.:
220.50 V20

Swing out rotor 2x3 Microtitreplates
Angle: 0-90°



Acceleration in s: 13/114
Deceleration in s: 17/252
max. Speed: 3,500 rpm
RCF-value: 1,424 xg
max. Radius: 10.4 cm
max. Loading height: 63 mm
max. Loading weight: 310 g

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: 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

Order No.:
without Adapter
without Adapter

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]

17.0

17.0

13.5

13.5

11

11-16

Length [min/max.]:

95/115

120

95/115

70/90

40

90/92

Accessoires Z 307

Rotor/Bucket		Adapter					
Order No.: 221.54 V20  Angle rotor 12 x 15 ml Angle: 32°	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	Volume 15 ml conical  Ø Tubes in mm Length min./max. in mm Order No. Adapter 17 120 without 15 ml  Ø Tubes in mm Length min./max. in mm Order No. Adapter 17 105/120 without 4-7 ml Vakut.®  Ø Tubes in mm Length min./max. in mm Order No. Adapter 13 100 701.011 1.8-5 ml Vakut.®  Ø Tubes in mm Length min./max. in mm Order No. Adapter 13 75 701.012 1.5/2.0 ml  Ø Tubes in mm Length min./max. in mm Order No. Adapter 11 40 701.015 6-10 ml Sarstedt®/Vakut.®  Ø Tubes in mm Length min./max. in mm Order No. Adapter 16 92/107 701.018					
Order No.: 221.55 V20  Angle rotor 6 x 50 ml Angle: 40°	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	Volume 50 ml conical  Ø Tubes in mm Length min./max. in mm Order No. Adapter 29 116 without 50 ml RB/OR  Ø Tubes in mm Length min./max. in mm Order No. Adapter 29 100/120 without 30 ml  Ø Tubes in mm Length min./max. in mm Order No. Adapter 25 92/95 708.019 16 ml  Ø Tubes in mm Length min./max. in mm Order No. Adapter 18 100/105 708.003 15 ml conical  Ø Tubes in mm Length min./max. in mm Order No. Adapter 17 120 708.030 15 ml RB  Ø Tubes in mm Length min./max. in mm Order No. Adapter 17 97/120 708.030					
Order No.: 220.87 V22  PPS-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed	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	Order No.: without Adapter without Adapter 704.005 704.004 Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR Ø [mm] 11 11 8 6 Length [min./max.]: 40 40 45 45					
Order No.: 220.87 V20  Alu-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed	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	Order No.: without Adapter without Adapter 704.005 704.004 Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR Ø [mm] 11 11 8 6 Length [min./max.]: 40 40 45 45					
Order No.: 221.17 V21  Angle rotor 30 x 1.5/2.0 ml Angle: 45°	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	Order No.: without Adapter without Adapter 704.005 704.004 Adapter 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR Ø [mm] 11 11 8 6 Length [min./max.]: 40 40 45 45					
Order No.: 221.35 V20  Angle rotor 12 x 5 ml Tubes Angle: 45°	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	Order No.: without Adapter 701.015 701.016 701.017 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 Ø [mm] 17 11 12.6 12.6 Length [min./max.]: 60 40 41 48					

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