

Universal Centrifuge

| Z 307



HERMLE
LABORTECHNIK

4 x 200ml

Z 307



* This centrifuge model and its accessories are an IVD device according to IVDR (EU) 2017/746. It is intended for the separation of mixtures of substances of different densities, in particular for the preparation and processing of samples from the human body in the context of an in vitro diagnostic application, in order to enable the intended use of the in vitro diagnostic medical device. It must not be used to determine any measured values and after centrifugation, no components of human origin may be implanted or administered back into the body.

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

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 200ml
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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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 I 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



95/103
4
0.2
705.104

50 ml
conical
29



116
4
0.1
705.105

50 ml
skirted
29



116
4
0.2
705.106

25/30 ml
Universal
25



95/105
4
0.2
705.107

25/30 ml
RB/OR
25



90/110
4
0.2
705.108

15 ml
conical
17



120
16
0.1
705.109*

15 ml
conical
17



120
12
0.0
705.110

15 ml
RB
17



60/107
28
0.2
705.111

5/7 ml
RB
13



65/100
32
0.2
705.112

5 ml
conical
17



60/70
16
0.1
705.113

1.5/2.0 ml
micro
11



40
32
0.1
705.114

6-10 ml
Vakut.®
16



100
28
0.2
705.111

1.8-7 ml
Vakut.®
13



75/100
32
0.2
705.112

50 ml
conical
29



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
4
1.0
626.017

100 ml
RB Glass
44



90/108
4
1.0
626.000

85 ml
RB/OR
38



90/108
4
0.8
626.001

50 ml
RB Glass
34



92/118
4
0.7
626.008

50 ml
RB Glass
29



90/118
4
0.7
626.009

50 ml
conical
29



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



116
4
0.6
626.010

30 ml
Universal
25



95/105
4
1.1
626.011

25 ml
RB Glass
25



95/110
4
0.5
626.012

15 ml
conical
17



120
8
0.0
626.003

15 ml
RB
17



90/108
28
0.4
626.004

5/7 ml
RB Glass
13



75/100
36
1.3
626.005

1.5/2.0 ml
micro
11



40
40
5.5
626.014

4.5 ml
Sarstedt®
12



75/100
36
0.9
626.007

5/7 ml
13



65/80
28
3.3
626.015

6-10 ml
Vakut.®
16



90/108
28
0.4
626.004

1.8-7 ml
Vakut.®
13



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 Ø Tubes in mm Length min./max. in mm Order No. Adapter	15 ml conical  17 120 without	15 ml  17 105/120 without	4-7 ml Vakut.®  13 100 701.011	1.8-5 ml Vakut.®  13 75 701.012	1.5/2.0 ml  11 40 701.015	6-10 ml Sarstedt®/ Vakut.®  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 Ø Tubes in mm Length min./max. in mm Order No. Adapter	50 ml conical  29 116 without	50 ml RB/OR  29 100/120 without	30 ml  25 92/95 708.019	16 ml  18 100/105 708.003	15 ml conical  17 120 708.030	15 ml RB  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			

