

Universal Centrifuge

| Z 307



HERMLE
LABORTECHNIK

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* 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	200ml Bottle 56	200ml conical 56	100ml RB Glass 40	85ml RB/OR 38	50ml 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 Adapter	705.100	705.101	705.102	705.103

Volume	50ml RB/OR 29	50ml conical 29	50ml skirted 29	25/30ml Universal 25	25/30ml RB/OR 25	15ml conical 17	15ml conical 17	15ml RB 17	5/7ml RB 13	5ml conical 17	1.5/2.0ml micro 11	6-10ml Vakut.® 16	1.8-7ml Vakut.® 13	50ml 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	16	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

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	145ml Nalgene® 50	100ml RB Glass 44	85ml RB/OR 38	50ml RB Glass 34	50ml RB Glass 29	50ml 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	50ml skirted 29	30ml Universal 25	25ml RB Glass 25	15ml conical 17	15ml RB 17	5/7ml RB Glass 13	1.5/2.0ml micro 11	4.5ml Sarstedt® 12	5/7ml 13	6-10ml Vakut.® 16	1.8-7ml 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 2 x 3 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 2 x 3 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.:	Adapter	Ø [mm]	Length [min/max.]:
without Adapter	1 x 15 ml Glass	17.0	95/115
without Adapter	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

Accessoires Z 307

Rotor/Bucket

Order No.:
221.54 V20



Angle rotor 12 x 15 ml
Angle: 32°

Adapter

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

15 ml

4-7ml
Vakut.®

1.8-5 ml
Vakut.®

1.5/2.0 ml

6-10 ml
Sarstedt®/
Vakut.®



Ø Tubes in mm
Length min./max. in mm
Order No. Adapter

17
120
without

17
105/120
without

13
100
701.011

13
75
701.012

11
40
701.015

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

50 ml
RB/OR

30ml

16 ml

15 ml
conical

15 ml
RB



Ø Tubes in mm
Length min./max. in mm
Order No. Adapter

29
116
without

29
100/120
without

25
92/95
708.019

18
100/105
708.003

17
120
708.030

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]	Length [min./max.]
11	40
11	40
8	45
6	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]	Length [min./max.]
11	40
11	40
8	45
6	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]	Length [min./max.]
11	40
11	40
8	45
6	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]	Length [min./max.]
17	60
11	40
12.6	41
12.6	48

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