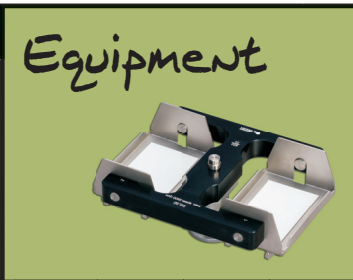


# UNIVERSAL CENTRIFUGE Z 306



# UNIVERSAL CENTRIFUGE Z 306

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 306 offers many accessories, including rotors for microtitreplates and high speed fixed angle rotors for reaction vessels or centrifuge tubes up to 50 ml. Additionally, swing out rotors, which hold a volume of 4 x 100 ml can be used with special adapters for tissue culture tubes and also for all common blood tubes.

This wide range of accessories makes the Z306 laboratory centrifuge indispensable in research laboratories and small clinical hospital laboratories.



## Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Lid lock
- Automatic rotor identification system 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

## Distinct Control Panel

- Simple one handed 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



## Technical Data Z 306

max. speed:	14000 rpm
max RCF:	18626 xg
max. volume:	4 x 100 ml
Speed range:	200 - 14000 rpm
running time:	59 min 50 s / 10 s increments 99 h 59 min 50 s / 1 min increments

Dimensions (w x h x d):	35,5 cm x 33 cm x 47,4 cm
Weight:	30 kg

Order numbers:	
310.00 V01 - Z 306, 230 V / 50 - 60 Hz / 240 W	
310.00 V02 - Z 306, 120 V / 50 - 60 Hz / 300 W	

# Accessories 2306

## Rotor/Bucket

Order No.:  
221.12 V03



Swing out rotor 4 Places  
Angle: 0-90°

Volume  
Tubes ø in mm

Length min./max. (mm)  
Tubes per rotor  
Radiuscorrection (cm)  
Order No.: Tube rack

Order No.:  
220.72 V06

Swing out rotor 4 Places  
Angle: 0-90°

605.000  
Bucket for Tube Rack

605.002  
Hermetic lid for bucket



Volume  
Tubes Ø in mm

Length min./max. (mm)  
Tubes per rotor  
Radiuscorrection (cm)  
Order No.: Tube rack

50 ml Rim 29	30 ml Universal 25	25 ml RB Glass 25	15 ml Falcon 17	15 ml Falcon 17	15 ml Rim 17	15 ml RB Glass 17	5/7 ml RB Glass 13	1,5 ml Reakt. 11	10 ml Sarstedt 17	5/7ml 13	10 ml Vakutainer 17	50ml Falcon 29	15ml Falcon 17
116	95/105	95/110	120	120	120	90/108	75/100	42	85/100	75/100	75/100	116	120
4	4	4	4	8	8	16	28	20	12	16	16	8	12
0,7	0,3	0,0	0,0	0,0	0,0	0,3	0,6	0,6	0,2	0,6	0,2	0,7	0,0
705.013	705.014	705.002	705.018	705.005* <sup>1</sup>	705.015* <sup>2</sup>	705.003	705.007	705.009	705.011	705.008	705.016	605.004	605.005

\* \*\*only without bucket lid

Order No.:  
221.16 V03



Swing out rotor 2 x 3 Microtitreplates  
Angle: 0-90°

Order No.:  
220.50 V08



Swing out rotor 2 x 3 Microtitreplates  
Angle: 0-90°

Order No.:  
221.19 V02



Angle rotor 30 x 15 ml  
Angle: 35°

## Adapters

Acceleration in s: 14 / 110  
Deceleration in s: 19 / 170  
max. Speed: 4500 rpm  
RCF-value: 3350 xg  
max. radius: 14,8 cm

Volume	100 ml RB Glass 44	85 ml RB/OR 38	50 ml RB Glass 34	50 ml RB Glass 29	50 ml Falcon 29
Tubes ø in mm					
Length min./max. (mm)	90/108	90/108	92/118	90/118	116
Tubes per rotor	4	4	4	4	4
Radiuscorrection (cm)	0,7	0,7	0,3	0,3	0,3
Order-No.: Tube Rack	626.000	626.001	626.008	626.009	626.002

50 ml Rim 29	30 ml Universal 25	25 ml RB Glass 25	15 ml Falcon 17	15 ml Rim 17	15 ml RB Glass 17	5/7 ml RB Glass 13	1,5 ml Reakt. 11	4,5 ml Sarstedt 12	5/7ml 13	5/7ml Vakut. 13
116	95/105	95/110	120	120	90/108	75/100	42	75/100	65/80	75/100
4	4	4	8	4	28	36	40	36	28	28
0,2	0,2	0,2	0,0	0,0	0,3	0,6	0,6	0,6	3,2	0,6
626.010	626.011	626.012	626.003	626.013	626.004	626.005	626.014	626.007	626.015	626.006

Acceleration in s: 14 / 110  
Deceleration in s: 17 / 170  
max. Speed: 4000 rpm  
RCF-value: 2540 xg  
max. radius: 14,2 cm

Volume	100 ml RB Glass 40	85 ml RB/OR 38	50 ml RB Glass 34	50 ml RB/OR 29	50 ml Falcon 29
Tubes ø in mm					
Length min./max. (mm)	90/108	90/108	92/118	90/133	116
Tubes per rotor	4	4	4	4	4
Radiuscorrection (cm)	0,7	0,7	0,0	0,0	0,3
Order-No.: Tube Rack	705.000	705.012	705.001	705.010	705.006

50 ml Rim 29	30 ml Universal 25	25 ml RB Glass 25	15 ml Falcon 17	15 ml Falcon 17	15 ml Rim 17	15 ml RB Glass 17	5/7 ml RB Glass 13	1,5 ml Reakt. 11	10 ml Sarstedt 17	5/7ml 13	10 ml Vakutainer 17	50ml Falcon 29	15ml Falcon 17
116	95/105	95/110	120	120	120	90/108	75/100	42	85/100	75/100	75/100	116	120
4	4	4	4	8	8	16	28	20	12	16	16	8	12
0,7	0,3	0,0	0,0	0,0	0,0	0,3	0,6	0,6	0,2	0,6	0,2	0,7	0,0
705.013	705.014	705.002	705.018	705.005* <sup>1</sup>	705.015* <sup>2</sup>	705.003	705.007	705.009	705.011	705.008	705.016	605.004	605.005

\* \*\*only without bucket lid

Acceleration in s: 25 / 230  
Deceleration in s: 26 / 340  
max. Speed: 4500 rpm  
RCF-Value: 2716 xg  
max. radius: 12,0 cm  
max. Loading height: 58 mm  
max. Loading weight: 310 g

Order No.: Tube rack  
706.000 48 x 1,5 ml (2,0 ml)  
Tubes

Acceleration in s: 14 / 110  
Deceleration in s: 19 / 250  
max. Speed: 3500 rpm  
RCF-value: 1424 xg  
max. radius: 10,4 cm  
max. Loading height: 65 mm  
max. Loading weight: 310 g

Order No.: Tube rack  
706.000 48 x 1,5 ml (2,0 ml)  
Tubes

Acceleration in s: 19 / 157  
Deceleration in s: 20 / 370  
max. Speed: 4500 rpm  
RCF-value: 2830 xg  
max. radius: 12,5/10,9 cm  
max. Ø: 17 mm

Order No.:	Tube rack	Ø (mm)	Length (min./max.):
ohne	1 x 15 ml-Glass	17,0	95/115
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 ml	11	42

# Accessories 2306

## Rotor/Bucket

Order No.:  
221.54 V02



Angle rotor 12 x 15 ml  
Angle: 32°

Order No.:  
220.87 V16



Angle rotor 24 x 1,5 / 2,0 ml  
Angle: 45°

Order No.:  
220.87 V15



Angle rotor 24 x 1,5 / 2,0 ml  
Angle: 45° | hermetically sealed

Order No.:  
221.55 V02



Angle rotor 6 x 50 ml  
Angle: 40°

Order No.:  
221.17 V07



Angle rotor 30 x 1,5 / 2,0 ml  
Angle: 45° | hermetically sealed

## Adapters

Acceleration in s: 11 / 102  
Deceleration in s: 14 / 167  
max. Speed: 6000 rpm  
RCF-value: 4427 xg  
max. radius: 11,0 cm  
max. Ø: 17 mm

Volume	15 ml Falcon	15 ml	7 ml	5 ml	1,5 / 2,0 ml
Ø Tubes in mm	17	17	13	13	11
Length in mm	121	105-120	100	65-75	42
Adapter Order No.:	without	without	701.011	701.012	701.015

Acceleration in s: 22 / 204  
Deceleration in s: 34 / 280  
max. Speed: 14000 rpm  
RCF-value: 18626 xg  
max. radius: 8,5 cm  
max. Ø: 11 mm

Order No.:	Tube rack	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

Acceleration in s: 25 / 203  
Deceleration in s: 36 / 285  
max. Speed: 14000 rpm  
RCF-value: 18626 xg  
max. radius: 8,5 cm  
max. Ø: 11 mm

Order No.:	Tube rack	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

Acceleration in s: 11 / 101  
Deceleration in s: 14 / 206  
max. Speed: 6000 rpm  
RCF-Value: 4427 xg  
max. radius: 11,0 cm  
max. Ø: 29 mm

Volume	50 ml Falcon	50 ml RB/OR	30 ml	16 ml	15 ml Falcon	15 ml
Ø Tubes in mm	29	29	25	18	17	17
Length in mm	116	100-120	100	100-105	121	97-120
Adapter Order No.:	without	without	708.019	708.003	708.030	708.030

Acceleration in s: 27 / 250  
Deceleration in s: 34 / 280  
max. Speed: 12000 rpm  
RCF-value: 15133 xg  
max. radius: 9,4 cm  
max. Ø: 11 mm

Order No.:	Tube rack	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

More from HERMLE:

Refrigerated  
High Speed Centrifuge **232 HK**

Max. Speed 20000 rpm  
Max. Volume 4 x 100 ml



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