

# UNIVERSAL CENTRIFUGE 2306



# 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	30 ml Universal	25 ml RB Glass	15 ml Falcon	15 ml Falcon	15 ml Rim	15 ml RB Glass	5/7 ml RB Glass	1,5 ml Reakt.	10 ml Sarstedt	5/7ml	10 ml Vakutainer	50ml Falcon	15ml Falcon
29	25	25	17	17	17	17	13	11	17	13	17	29	17
116	75/105	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*	705.015**	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°

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

Order No.:  
220.50 V08



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

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

Order No.:  
221.19 V02



Angle rotor 30 x 15 ml  
Angle: 35°

Acceleration in s:	Order No.:	Tube rack	Ø (mm)	Length (min./max.):
Deceleration in s: 20 / 370	701.010	1 x 15 ml-Glass	17,0	95/115
max. Speed: 4500 rpm	701.011	1 x 7 ml	13,5	95/115
RCF-value: 2830 xg	701.012	1 x 5 ml (RIA)	13,5	70/90
max. radius: 12,5/10,9 cm	701.000	1 x 1,5 ml	11	42
max. Ø: 17 mm				

# Accessories 2306

## Rotor/Bucket

Order No.:  
220.96 V04



Angle rotor 12 x 15 ml  
Angle: 28°

Order No.:  
220.87 V09



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

Order No.:  
220.87 V10



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

Order No.:  
220.97 V04



Angle rotor 6 x 50 ml  
Angle: 28°

Order No.:  
221.17 V03



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

## Adapters

Volume	15 ml Falcon	15 ml	15 ml	7 ml	5 ml	1,5 ml
Acceleration in s:	13 / 105					
Deceleration in s:	13 / 200					
max. Speed:	6000 rpm					
RCF-value:	4185 xg					
max. radius:	10,4 cm					
max. Ø:	17 mm					
Tube Ø in mm	17	17	17	13	13	11
Length in mm	120	105-125	95-105	95-115	70-95	42
Adapter Order No.:	without	without	701.010	701.011	701.012	701.000

Acceleration in s:	Order No.:	Tube rack	Ø (mm)	Length (min./max.):
Deceleration in s:	without Adapter	1 x 2,0 ml	11	40
max. Speed:	without Adapter	1 x 1,5 ml	11	40
RCF-value:	704.005	1 x 0,5 ml	8	45
max. radius:	704.004	1 x 0,4/0,2 ml PCR	6	45
max. Ø:				

Acceleration in s:	Order No.:	Tube rack	Ø (mm)	Length (min./max.):
Deceleration in s:	without Adapter	1 x 2,0 ml	11	40
max. Speed:	without Adapter	1 x 1,5 ml	11	40
RCF-value:	704.005	1 x 0,5 ml	8	45
max. radius:	704.004	1 x 0,4/0,2 ml PCR	6	45
max. Ø:				

Volume	50 ml Falcon	15 ml Falcon	15 ml
Acceleration in s:	13 / 105		
Deceleration in s:	13 / 200		
max. Speed:	6000 rpm		
RCF-Value:	3823 xg		
max. radius:	9,5 cm		
max. Ø:	30 mm		
Ø Tube in mm	30	17	17
Length in mm	120	120-125	95-105
Adapter Order No.:	without	603.001	701.010

Acceleration in s:	Order No.:	Tube rack	Ø (mm)	Length (min./max.):
Deceleration in s:	without Adapter	1 x 2,0 ml	11	40
max. Speed:	without Adapter	1 x 1,5 ml	11	40
RCF-value:	704.005	1 x 0,5 ml	8	45
max. radius:	704.004	1 x 0,4/0,2 ml PCR	6	45
max. Ø:				

More from HERMLE:

Refrigerated  
High Speed Centrifuge **232 HK**

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



**HERMLE**  
LABORTECHNIK

**HERMLE Labortechnik GmbH**

Siemensstraße 25  
78564 Wehingen • Germany

Phone: + 49 7426/9622-50  
Telefax: + 49 7426/9622-49

E-Mail: [vertrieb@hermle-labortechnik.de](mailto:vertrieb@hermle-labortechnik.de)  
Web: [www.hermle-labortechnik.de](http://www.hermle-labortechnik.de)

