

# Universal Centrifuge

| Z306



**HERMLE**  
**Benchmark**



4 x 145 ml

# Z306



The Z306 is a compact and economical centrifuge with a series of rotor options making it well suited for clinical, industrial, and research laboratories. Despite the impressive capacity of the 4 x 145 ml rotor (capable of supporting 8 x 50 ml or 12 x 15 ml with the use of rotor inserts), the Z306 is surprisingly compact with a footprint of just over 14 x 18 inches. An optional rotor is also available for microplates (2 x 3 microplates), positioning this model as one of the smallest, and least expensive centrifuges capable of high speed microplate centrifugation. Advanced microprocessor controls allow for instant rotor identification, which automatically converts the rotational speed to the relevant g-force (rcf), preventing the user from setting a speed above the capabilities of the installed rotor. In addition to retrieving saved programs, the easy to use front panel can adjust accel/decel rates, and change the end of run alarm tone.

## Technical Data

max. Speed:	14,000 rpm
max. RCF:	18,624 xg
max. Volume:	4 x 145 ml
Speed range:	200 - 14,000 rpm
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 1 min increments
Dimensions:	14 in x 13 in x 18.7 in (W x H x D) 35.5 cm x 33 cm x 47.4 cm (W x H x D)
Weight:	66 lbs / 30 kg
Order Number:	Z306, 120 V 50 - 60 Hz / 240 W Z306-E, 230 V 50 - 60 Hz / 300 W



## 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 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
- Timer: the centrifuge starts at the preselected time



# Accessories Z306

## Rotor/Bucket

Order No.:  
Z306-100



Swing out rotor 4 Place  
Angle: 0-90°

## Adapter

Acceleration in s: 14/110  
Deceleration in s: 19/170  
max. Speed: 4500 rpm  
RCF-value: 3350 xg  
max. Radius: 14.8 cm

Volume	145 ml	100 ml	85 ml	50 ml	50 ml
Tubes ø in mm	Nalgene® 50	RB Glass 44	RB/OR 38	RB Glass 29	Falcon® 29
Length min./max. in mm	100	90/108	90/108	90/118	116
Tubes per rotor	4	4	4	4	4
Radius correction (cm)	1.0	1.0	0.8	0.7	0.3
Order-No.: Z306-100-	A145	A100	A85	A50R	A50

Volume

Tubes ø in mm

Length min./max. in mm

Tubes per rotor Radius correction (cm) Order-No.: Z306-100-

Volume	50 ml skirted	30 ml Universal	15 ml Falcon®	6-10 ml Vakut.®	1.8-7 ml Vakut.®	1.5 ml Reakt.
Tubes ø in mm	29	25	17	16	13	11
Length min./max. in mm	116	95/105	120	90/108	75/100	42
Tubes per rotor	4	4	8	28	28	40
Radius correction (cm)	0.6	1.1	0.0	0.4	0.7	5.5
Order-No.: Z306-100-	A50SS	A30	A15	A10	A57	A20

Order No.:  
Z326-100H



Swing out rotor 4 Places  
w/ sealed buckets  
Angle: 0-90°

Z326-100H-BUK  
Bucket for Tube Rack w/ lid

Z326-100H-LID  
Lid for bucket

Volume	100 ml RB Glass	85 ml RB/OR	50 ml RB/OR	50 ml Falcon®
Tubes ø in mm	40	38	29	29
Length min./max. in mm	90/108	90/108	90/133	116
Tubes per rotor	4	4	4	4
Radius correction (cm)	0.9	0.6	0.6	0.4
Order-No.: Z326-100H-	A100	A85	A50R	A50

Volume

Tubes ø in mm

Length min./max. in mm

Tubes per rotor Radius correction (cm) Order-No.: Z326-100H-

Volume	50 ml skirted	30 ml Universal	15 ml Falcon®	15 ml Falcon®	15 ml RB Glass	6-10 ml Vakut.®	10-15 ml Vakut.®	1.8-7 ml Vakut.®	1.5 ml Reakt.	50ml Falcon®	15ml Falcon®
Tubes ø in mm	29	25	17	17	17	16	16	13	11	29	15
Length min./max. in mm	116	95/105	120	120	90/108	75/100	75/125	75/100	42	116	120
Tubes per rotor	4	4	4	8	16	16	4	16	20	8	12
Radius correction (cm)	0.7	1.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.0	0.0
Order-No.: Z326-100H-	A50SS	A30	A15S	A15*	A15R	A10	A15L	A57	A20	B50	B15

Order No.:  
Z326-02MP



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

Acceleration in s: 25/230  
Deceleration in s: 26/490  
max. Speed: 4500 rpm  
RCF-value: 2716 xg  
max. Radius: 12.0 cm  
max. Loading height: 63 mm  
max. Loading weight: 310 g

Order No.:  
BT1500-A1520  
BT1500-A05  
Z326-MPCA

Tube rack  
20 x 1.5 ml (2.0 ml) Tubes  
20 x 0.5 ml Tubes  
3 x Chamber slide or 35/60 mm petri dish

Order No.:  
Z326-1215



Angle rotor 12 x 15 ml  
Angle: 32°

Volume	15 ml Falcon®	15 ml	7 ml	5 ml
Ø Tubes in mm	17	17	13	13
Length min./max. in mm	120	105-120	100	75
Adapter Order No.:	without	without	C3100-ADP	C3100-ADP

Order No.:  
Z326-3015



Angle rotor 30 x 15 ml  
Angle: 35°

Acceleration in s:	Order No.:	Tube rack	Ø (mm)	Length (min./max.):
19/157	without	1 x 15 ml-Glass	17.0	95/115
Deceleration in s: 20/590	C3100-ADP	1 x 5/7 ml (pack of 8)	13	75/100
max. Speed: 4500 rpm				
RCF-value: 2830 xg				
max. Radius: 12.5/10.9 cm				
max. Ø: 17 mm				

# Accessories Z 306

## Rotor/Bucket

Order No.:  
Z326-0650-LS



Angle rotor 6 x 50 ml  
Angle: 40°

## Adapter

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	15 ml Falcon®	7 ml	5 ml
ØTubes in mm	29	29	17	13	13
Length min./max. in mm	116	100/120	120	100	75
Adapter Order No.:	without	without	Z206-50-A15	Z206-50-A57	Z206-50-A57C*

\*with Z206-50-A57

Order No.:  
Z326-1205



Angle rotor 12 x 5 ml  
Angle: 45°

Acceleration in s: 26/247  
Deceleration in s: 23/302  
max. Speed: 14000 rpm  
RCF-value: 18624 xg  
max. Radius: 8.5 cm  
max. Ø: 17 mm

Order No.:  
Z216-05-C10 1.0 ml Cryo tubes (Ø 12,6 x 41 mm) set  
of adapters (6 pcs.)  
Z216-05-C18 1.8 ml Cryo tubes (Ø 12,6 x 48 mm) set  
of adapters (6 pcs.)

Order No.:  
Z326-2420



Angle rotor 24 x 1.5 / 2.0 ml  
Angle: 45°

Acceleration in s: 22/204  
Deceleration in s: 35/285  
max. Speed: 14000 rpm  
RCF-value: 18624 xg  
max. Radius: 8.5 cm  
max. Ø: 11 mm

Order No.:	Tube rack	Ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Order No.:  
Z326-2420H



Angle rotor 24 x 1.5 / 2.0 ml  
Angle: 45° | hermetically sealed

Acceleration in s: 22/204  
Deceleration in s: 35/285  
max. Speed: 14000 rpm  
RCF-value: 18624 xg  
max. Radius: 8.5 cm  
max. Ø: 11 mm

Order No.:	Tube rack	Ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Order No.:  
Z326-3020H



Angle rotor 30 x 1.5 / 2.0 ml  
Angle: 45°

Acceleration in s: 27/250  
Deceleration in s: 34/450  
max. Speed: 12000 rpm  
RCF-value: 15131 xg  
max. Radius: 9.4 cm  
max. Ø: 11 mm

Order No.:	Tube rack	Ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

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