



PRODUCT BROCHURE · BENCHMARK SCIENTIFIC

## Z307 9.22 SM

3 models inside · Life Science · Centrifuges



### QUICK VIEW — SERIES AT A GLANCE

3 models in this document from Benchmark Scientific. Full specifications inside.

#### MODELS IN THIS DOCUMENT

**Z307 · Z307-E · Z307-BND-MP**

#### SHIP WEIGHT

**66 lb**

#### SOURCING

**Authorized U.S. distributor**

**Distributed by Legacy Lab Supplies**

legacylabsupplies.com · (855) 746-7557 / 855-SHOP-LLS · quotes in 24 hours



# Universal Centrifuge

| Z307



**HERMLE**  
**Benchmark** 

4 x 200 ml

# Z307



The Z307 compact universal laboratory centrifuge offers a wide range of applications covering clinical, research, and industrial laboratory use. The Z307 offers many accessories, including rotors for microplates and high speed fixed angle rotors for microtubes and centrifuge tubes up to 50 ml. The swing out rotors can load all common tubes such as blood collection tubes, 15/50 ml tubes and even 200 ml tubes. This wide range of accessories makes the Z307 laboratory centrifuge indispensable in research laboratories and clinical hospital laboratories.

## Technical Data

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| max. Speed:   | 14,000 rpm                                                               |
| max. RCF:     | 18,624 xg                                                                |
| max. Volume:  | 4 x 200 ml                                                               |
| Speed range:  | 200 – 14,000 rpm                                                         |
| Running time: | 59 min 50 s / 10 s increments<br>99 h 59 min / 1 min increments          |
| Dimensions:   | 14 in x 13 in x 18.6 in<br>35.5 cm x 33 cm x 47.4 cm (W x H x D)         |
| Weight:       | 66 lbs / 30 kg                                                           |
| Order No:     | Z307, 120 V<br>50 - 60 Hz / 240 W<br>Z307-E, 230 V<br>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 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 brakeless 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 Z307

## Rotor/Bucket

Order No.:  
Z327-200

Swing out rotor 4 Place w/ buckets  
Angle: 0-90°  
(w/o buckets: Z327-200-AC)

Z327-200-BUK  
Bucket for Adapter

Z327-200-LID  
Lid for Bucket | 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

200 ml  
Bottle  
56

200 ml  
conical  
56

100 ml  
RB Glass  
40

85 ml  
RB/OR  
38



Length min./max. (mm)

Tubes per rotor

Radius correction (cm)

Order No. Adapter: Z327-200-\_\_\_

112

4

0.0

without Adapter

120

4

0.0

A200

95/115

4

0.2

A100

95/108

4

0.2

A85

Volume

Tubes Ø in mm

50 ml  
RB/OR  
29

50 ml  
conical  
29

50 ml  
skirted  
29

25/30 ml  
Universal  
25

25/30 ml  
RB/OR  
25

15 ml  
conical  
17

15 ml  
conical  
17

15 ml  
RB  
17

5/7 ml  
RB  
13

5 ml  
conical  
17

1.5/2.0 ml  
micro  
11

6-10 ml  
Vakut.®  
16

6-10 ml  
Vakut.®  
16

1.8-7 ml  
Vakut.®  
13

50 ml  
conical  
29



Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter: Z327-200-\_\_\_

95/103

4

0.2

A50R

116

4

0.1

A50

116

4

0.2

A50SS

95/105

4

0.2

A25

90/110

4

0.2

A30

120

16

0.1

A15B\*

120

12

0.0

A15

60/107

28

0.2

A10

65/100

32

0.2

A57

60/70

20

0.1

A5F

40

32

0.1

A20

130

4

0.2

A15L

100

28

0.2

A10

75/100

32

0.2

A57

116

8

0.0

B50

\*only without Bucket Lid

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



Acceleration in s: 15/100  
Deceleration in s: 15/150  
max. Speed: 4000 rpm  
RCF-value: 2611 xg  
max. Radius: 14.6 cm

Volume

Tubes ø in mm

100 ml  
RB Glass  
40

85 ml  
RB/OR  
38

50 ml  
RB/OR  
29

50 ml  
Falcon®  
29



Length min./max. in mm

Tubes per rotor

Radius correction (cm)

Order-No.: Z326-100H-\_\_\_

90/108

4

0.9

A100

90/108

4

0.6

A85

90/133

4

0.6

A50R

116

4

0.4

A50

Volume

Tubes Ø in mm

50 ml  
skirted  
29

30 ml  
Universal  
25

15 ml  
Falcon®  
17

15 ml  
Falcon®  
17

15 ml  
RB Glass  
17

6-10 ml  
Vakut.®  
16

10-15 ml  
Vakut.®  
16

1.8-7 ml  
Vakut.®  
13

1.5 ml  
Reakt.  
11

50 ml  
Falcon®  
29

15 ml  
Falcon®  
17



Length min./max. (mm)

Tubes per rotor

Radius Correction (cm)

Order No. Tube rack

116

4

0.7

A50SS

95/105

4

1.5

A30

120

4

0.5

A15S

120

8

0.5

A15\*

90/108

16

0.6

A15R

75/100

16

0.6

A10

75/125

4

0.6

A15L\*

75/100

16

0.6

A57

42

20

0.6

A20

116

8

0.0

B50

120

12

0.0

B15

\* only without bucket lid

Order No.:  
Z306-100



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

145 ml  
Nalgene®  
50

100 ml  
RB Glass  
44

85 ml  
RB/OR  
38

50 ml  
RB Glass  
29

50 ml  
conical  
29



Length min./max. (mm)

Tubes per Rotor

Radius correction (cm)

Order No. Adapter: Z306-100-\_\_\_

100

4

1.0

A145

90/108

4

1.0

A100

90/108

4

0.8

A85

90/118

4

0.7

A50R

11

# Accessoires Z307

| Rotor/Bucket                                                                                                                                                                                                                     |                                                                                                                                                                      | Adapter                                                                                                                                                                                    |                                                                                                                                                                                                                                                                           |                                             |                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------|--|
| <div>Order No.:<br/>Z326-3015</div> <div></div> <div>Angle rotor 30 x 15 ml Glass<br/>or 20 x 15 ml conical<br/>Angle: 35°</div>                | <div>Acceleration in s: 18/155<br/>Deceleration in s: 18/369<br/>max. Speed: 4,500 rpm<br/>RCF-value: 2,830 xg<br/>max. Radius: 12.5/10.9 cm<br/>max. Ø: 17 mm</div> | <div>Order No.:<br/>without<br/>without<br/>C3100-ADP</div>                                                                                                                                | <div>Adapter<br/>1 x 15ml Glass<br/>1 x 15ml conical<br/>1 x 5/7ml</div>                                                                                                                                                                                                  | <div>Ø [mm]<br/>17.0<br/>17.0<br/>13</div>  | <div>Length [min./max.]:<br/>95/115<br/>120<br/>75/100</div> |  |
| <div>Order No.:<br/>Z326-1215</div> <div></div> <div>Angle rotor 12 x 15 ml<br/>Angle: 32°</div>                                                | <div>Acceleration in s: 13/101<br/>Deceleration in s: 11/285<br/>max. Speed: 6,000 rpm<br/>RCF-value: 4,427 xg<br/>max. Radius: 11.0 cm<br/>max. Ø: 17 mm</div>      | <div>Volume</div> <div></div> <div>Tubes Ø in mm<br/>Length min./max. in mm<br/>Order No. Adapter</div> | <div>15 ml conical<br/>15 ml<br/>4-7ml Vakut.®<br/>1.8-5 ml Vakut.®</div> <div>17<br/>120<br/>without<br/>17<br/>105/120<br/>without<br/>13<br/>100<br/>C3100-ADP<br/>13<br/>75<br/>C3100-ADP</div>                                                                       |                                             |                                                              |  |
| <div>Order No.:<br/>Z326-0650-LS</div> <div></div> <div>Angle rotor 6 x 50 ml<br/>Angle: 40°</div>                                              | <div>Acceleration in s: 14/102<br/>Deceleration in s: 11/304<br/>max. Speed: 6,000 rpm<br/>RCF-value: 4,424 xg<br/>max. Radius: 11.0 cm<br/>max. Ø: 29 mm</div>      | <div>Volume</div> <div></div> <div>Tubes Ø in mm<br/>Length min./max. in mm<br/>Order No. Adapter</div> | <div>50 ml conical<br/>50 ml RB/OR<br/>15 ml conical<br/>7 ml<br/>5 ml</div> <div>29<br/>116<br/>without<br/>29<br/>100/120<br/>without<br/>17<br/>120<br/>Z206-50-A15<br/>17<br/>97/120<br/>Z206-50-A57<br/>18<br/>100/105<br/>Z206-50-A57C*<br/>*with Z206-50-A57</div> |                                             |                                                              |  |
| <div>Order No.:<br/>Z326-1205</div> <div></div> <div>Angle rotor 12 x 5 ml Tubes<br/>Angle: 45°</div>                                         | <div>Acceleration in s: 27/238<br/>Deceleration in s: 22/206<br/>max. Speed: 14,000 rpm<br/>RCF-value: 18,624 xg<br/>max. Radius: 8.5 cm<br/>max. Ø: 11 mm</div>     | <div>Order No.:<br/>without<br/>Z216-05-C10<br/>Z216-05-C18</div>                                                                                                                          | <div>Adapter<br/>1 x 5.0ml conical<br/>1 x 1.0ml Cryo, flat<br/>1 x 1.8ml Cryo, round</div>                                                                                                                                                                               | <div>Ø [mm]<br/>17<br/>12.6<br/>12.6</div>  | <div>Length [min./max.]:<br/>60<br/>41<br/>48</div>          |  |
| <div>Order No.:<br/>Z326-2420</div> <div></div> <div>Plastic-Lid<br/>Angle rotor 24 x 1.5/2.0 ml<br/>Angle: 45°   hermetically sealed</div>   | <div>Acceleration in s: 23/207<br/>Deceleration in s: 34/215<br/>max. Speed: 14,000 rpm<br/>RCF-value: 18,624 xg<br/>max. Radius: 8.5 cm<br/>max. Ø: 11 mm</div>     | <div>Order No.:<br/>without<br/>without<br/>C1008-A5-6<br/>C1008-A2-6</div>                                                                                                                | <div>Adapter<br/>1 x 2.0 ml<br/>1 x 1.5 ml<br/>1 x 0.5 ml<br/>1 x 0.4/0.2 ml PCR</div>                                                                                                                                                                                    | <div>Ø [mm]<br/>11<br/>11<br/>8<br/>6</div> | <div>Length [min./max.]:<br/>40<br/>40<br/>45<br/>45</div>   |  |
| <div>Order No.:<br/>Z326-2420H</div> <div></div> <div>Aluminum-Lid<br/>Angle rotor 24 x 1.5/2.0 ml<br/>Angle: 45°   hermetically sealed</div> | <div>Acceleration in s: 23/206<br/>Deceleration in s: 33/196<br/>max. Speed: 14,000 rpm<br/>RCF-value: 18,624 xg<br/>max. Radius: 8.5 cm<br/>max. Ø: 11 mm</div>     | <div>Order No.:<br/>without<br/>without<br/>C1008-A5-6<br/>C1008-A2-6</div>                                                                                                                | <div>Adapter<br/>1 x 2.0 ml<br/>1 x 1.5 ml<br/>1 x 0.5 ml<br/>1 x 0.4/0.2 ml PCR</div>                                                                                                                                                                                    | <div>Ø [mm]<br/>11<br/>11<br/>8<br/>6</div> | <div>Length [min./max.]:<br/>40<br/>40<br/>45<br/>45</div>   |  |
| <div>Order No.:<br/>Z326-3020H</div> <div></div> <div>Angle rotor 30 x 1.5/2.0 ml<br/>Angle: 45°</div>                                        | <div>Acceleration in s: 26/244<br/>Deceleration in s: 33/349<br/>max. Speed: 12,000 rpm<br/>RCF-value: 15,131 xg<br/>max. Radius: 9.4 cm<br/>max. Ø: 11 mm</div>     | <div>Order No.:<br/>without<br/>without<br/>C1008-A5-6<br/>C1008-A2-6</div>                                                                                                                | <div>Adapter<br/>1 x 2.0 ml<br/>1 x 1.5 ml<br/>1 x 0.5 ml<br/>1 x 0.4/0.2 ml PCR</div>                                                                                                                                                                                    | <div>Ø [mm]<br/>11<br/>11<br/>8<br/>6</div> | <div>Length [min./max.]:<br/>40<br/>40<br/>45<br/>45</div>   |  |