

# HERMLE Centrifuges



UNIVERSAL  
LABORATORY CENTRIFUGES  
■ Z-300 ■ Z-300K



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# Compact Versatility

The Hermle Z 300 series includes both the ambient Z 300 and refrigerated Z 300 K centrifuges. Various fixed angle and swing-out rotors are available to process a variety of different tube types from 0.2 to 100 ml. These units are well suited for all standard blood collection, conical and microcentrifuge tubes as well as standard and deep well microplates. High speed and g-force make the Z 300 series ideal for applications ranging from clinical to cell culture and molecular biology.

Powerful, brushless motors quickly accelerate rotors to the preset speed. Braking is dynamically controlled to bring the rotors to a soft stop without disrupting fragile samples. Operation of the centrifuge may be timed, continuous or momentary.

Microprocessor based control panels allow quick and easy programming. Operating parameters are set with convenient turn knobs while their values (run time, rpm, g-force and temperature) are shown on large digital displays.

The rotor recognition system in the Z 300 series provides safety and convenience when different rotors are used. Each rotor is recognized at the beginning of a run and automatically limited to its rated maximum speed. In addition, by recognizing the rotor, the microprocessor can accurately calculate and display g-force during a run.

Ambient air circulates throughout the chamber of the Z 300 preventing significant rises in sample temperature. The powerful refrigeration system in the Z 300 K can maintain samples at or below 4°C, even at maximum speed.

## Z 300 Series Advantages

- More than 13 rotor options
- Accommodates tubes from 0.2 ml to 100 ml
- Quiet, maintenance-free induction drive
- Automatic rotor recognition system
- Imbalance sensor with safety shut down
- Compact, space saving design
- Microprocessor control with digital display
- Corrosion resistant, stainless steel rotor chamber
- Automatic g-force calculation and display

## Specifications:

Max. volume:	400 ml (4 x 100 ml)
Max. speed/rcf:	13,500rpm
Min. speed/rcf:	17,310 x g
Timer:	1 to 60 minutes or continuous
Brake:	Dynamically controlled
Temp. range:	-10 to +40°C (Z 300 K only)
Dimensions	
Z 300:	14 x 18 x 13 in./35.5 x 47.5 x 33 cm
Z 300 K:	16.5 x 26.4 x 13.2 in./42 x 66 x 33.5 cm
Weight	
Z 300:	88 lb/40 kg
Z 300 K:	167.2 lb/76 kg

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## Accessories (See Z 300 Accessories brochure for complete listing)

### Swing-out rotors

4 x 100 ml  
w/buckets



Round bucket with sealing cap,  
included with rotor

Order number	C-0323-72
Max. speed in rpm	4000rpm
Max. radius	14 cm
Max. RCF (g-value)	2504 x g
Acceleration time	25 sec
Deceleration time	29 sec

<b>Tube Inserts</b>	
100/80 ml	C-0320-720
50 ml conical	C-0320-728
50 ml round	C-0320-729
15 ml conical	C-0320-726
10 ml	C-0320-724
5 ml	C-0320-725

4 x 50 ml



8 x 15 ml



2 x 3 microplates



Order number	C-0300-50
Max. speed in rpm	4000rpm
Max. radius	14.2 cm
Max. RCF (g-value)	2540 x g
Acceleration time	19 sec
Deceleration time	20 sec

Order number	C-0300-15
Max. speed in rpm	5000rpm
Max. radius	14.9 cm
Max. RCF (g-value)	4164 x g
Acceleration time	23 sec
Deceleration time	29 sec

Order number	C-0382-50
Max. speed in rpm	3500rpm
Max. radius	11 cm
Max. RCF (g-value)	1500 x g
Acceleration time	45 sec
Deceleration time	29 sec

### Angle rotors

6 x 50 ml



12 x 15 ml



44 x 1.5/2.0 ml



Order number	C-0300-97
Max. speed in rpm	6000rpm
Max. radius	9.6 cm
Max. RCF (g-value)	3863 x g
Acceleration time	21 sec
Deceleration time	20 sec

Order number	C-0300-96
Max. speed in rpm	6000rpm
Max. radius	10.7 cm
Max. RCF (g-value)	4306 x g
Acceleration time	21 sec
Deceleration time	37 sec

Order number	C-0252-9
Max. speed in rpm	13,500rpm
Max. radius	8.4 cm
Max. RCF (g-value)	17,110 x g
Acceleration time	34 sec
Deceleration time	37 sec

Additional rotors and inserts available. See Z 300 Accessories brochure for details.

## Ordering Information:

C-0300	.....	Z 300 Universal Centrifuge, 120V
C-0300-230V	.....	Z 300 Universal Centrifuge, 230V
C-0300-K	.....	Z 300 K Refrigerated Universal Centrifuge, 120V
C-0300-K-230V	.....	Z 300 K Refrigerated Universal Centrifuge, 230V



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