

# HERMLE

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## LABORTECHNIK



**Universal Centrifuges**  
Z 300 ■ Z 300 K

**Universal High Speed Centrifuges**  
Z 323 ■ Z 323 K

# Universal Centrifuges

## Z 300 / Z 300 K

### Centrifuges to meet your needs

- Maximum volume 400 ml (4 x 100 ml)
- Many rotors and adapters available for both swing-out and fixed angle rotors as well as microplate rotors
- Rotors are easy to exchange
- Runs can be timed from 0-60 min, or continuous. Short runs can be achieved with the quick button feature.
- Highly versatile centrifuge to fit your every need

### Centrifuge Safety Features

- Automatic rotor recognition limits rotors to their rated maximum speed
- Imbalance sensor with safety shutdown mechanism
- Electronic lid locking system prevents opening of lid while in usage
- Manufactured in accordance to IEC 1010 regulations
- Powerful CFC-free refrigeration system
- Corrosion resistant stainless steel chambers
- Highly durable construction provides stability during imbalance

### User Friendly Operating Features

- Large easy to view control panel with digital display
- Control knobs for selecting
  - Speed / RCF
  - Running time
  - Temperature
- Digital displays for pre-set or actual values
- "QUICK"-button for short runs
- Selectable acceleration and deceleration rates
- Stand still refrigeration
- Pre-set key prevents accidental change of set values



HERMLE "Standard-Control"

## Universal High Speed Centrifuges Z 323 / Z 323 K



### For High Speed Performance

- Capacity for 4 x 100 ml at a speed of 5.000 rpm
- Many rotors and adapters available for both swing-out and fixed angle rotors as well as microplate rotors
- High speed microrotors up to 17.000 rpm / 26.810 x g
- High speed angle rotors for 85 ml or 50 ml up to 13.500 rpm / 20.986 x g
- Rotors are easy interchangeable

### Safety Features

- All the same features as previously mentioned on the Z 300 and Z 300 K. Additional features include:
- A motor driven lid lock which significantly reduces the force required to activate the lock.

### User Friendly Operating Features

- Large easy to view control panel with digital display
- Control knobs for selecting:
  - Speed / RCF
  - Running time
  - Temperature
- Digital display of both pre-set and actual values
- "QUICK"-button for short runs
- Radius correction feature which allows the most accurate g-value calculation by compensating for the different tube sizes and adapters.
- Program memory can store up to 10 complete runs
- Braking can be adjusted to 10 different intensities
- Pre-set key prevents accidental change of set values
- Pre-cooling program option



HERMLE "Multi-Control"

Centrifuge	Z 300	Z 300 K	Z 323	Z 323 K
<b>Output data</b>				
Max. speed	13.500 rpm	13.500 rpm	17.000 rpm	17.000 rpm
Max. RCF	17.523 x g	17.523 x g	26.810 x g	26.810 x g
Max. volume	4 x 100 ml	4 x 100 ml	4 x 100 ml	4 x 100 ml
<b>Technical data</b>				
Drive mechanism	brushless induction drive			
Type of control	"Standard-Control"		"Multi-Control"	
Speed range	250-13.500 rpm / 250 rpm		200-17.000 rpm / 10 rpm	
Running time	1-60 min / continuous run		1-60 min / continuous run	
Temperature range		-20 - 40° C		-20 - 40° C
<b>Dimensions in mm</b>				
Unit (L/H/W)	355 x 330 x 475	420 x 335 x 660	390 x 370 x 550	690 x 370 x 550
Package (L/H/W)	480 x 610 x 490	740 x 510 x 850	520 x 470 x 650	820 x 700 x 590
<b>Weight in kg</b>				
Unit	27	55	44	75
Unit incl. packaging	32	68	51	88
<b>Power consumption</b>				
<b>Voltages</b>	<b>Article-No.</b>			
230 V / 50-60 Hz	<b>283.00 V01</b>	<b>289.00 V01</b>	<b>278.00 V01</b>	<b>279.00 V01</b>
120 V / 50-60 Hz	<b>283.00 V02</b>	<b>289.00 V02</b>	<b>278.00 V02</b>	<b>279.00 V02</b>
230 V / 50-60 Hz	<b>283.00 P01</b>	<b>289.00 P01</b>		
	incl. rotor 220.72 V04 and buckets 605.000			
120 V / 50-60 Hz	<b>283.00 P02</b>	<b>289.00 P02</b>		
	incl. rotor 220.72 V04 and buckets 605.000			
<b>Accessories</b>				
<b>Safety chassis</b>				
Height approx. 56 cm incl. centrifuge	<b>272.98 V01</b>	<b>274.98 V01</b>	<b>272.98 V01</b>	<b>270.98 V01</b>
Height approx. 86 cm incl. centrifuge	<b>272.98 V02</b>	<b>274.98 V02</b>	<b>272.98 V02</b>	<b>270.98 V02</b>

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