

# Universal Centrifuges

■ Z 366

■ Z 366 K



**HERMLE**  
LABORTECHNIK

Z 366

Z 366 K



## Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic rotor identification system with over speed protection, immediately upon rotor insertion
- Active imbalance identification and cut off (rotor-specific)
- CFC-free refrigeration system
- A large variety of rotors and accessories
- Audible signal at the end of each run with several melody options
- Noise level < 63 dBA (depend on rotor)
- Manufactured according to international safety regulations, i. e. IEC 61010

These universal table top centrifuges Z 366 and Z 366 K putting new scales regarding the versatility, running features, easy handling and design. Both, the tube capacity of 28 x 15 ml conical tubes and centrifugal forces up to 24321 xg, turning these table top centrifuges Z 366 and Z 366 K into universal high-powered centrifuges.

## Technical Data

max. Speed:	15000 / 16000 rpm
max. RCF:	21382 / 24321 xg
max. Volume:	6 x 250 ml
Speed range:	200 - 15000 / 16000 rpm
Temperature range	
Z 366 K:	-20°C to 40°C
Running time:	99 h 59 min / 59 min 50 s in 1 min / 10 s increments

## Dimensions

Z 366:	43 cm x 36 cm x 51 cm (WxHxD)
Z 366 K:	72 cm x 36 cm x 51 cm (WxHxD)

## Weight:

Z 366:	52 kg
Z 366 K:	77 kg

## Power input:

Z 366:	520 W
Z 366 K:	785 W

## Order numbers:

Z 366:	301.00 V03 - Z 366, 230 V / 50 - 60 Hz
	301.00 V04 - Z 366, 120 V / 50 - 60 Hz
Z 366 K:	319.00 V01 - Z 366 K, 230 V / 50 - 60 Hz
	319.00 V02 - Z 366 K, 120 V / 50 - 60 Hz



## Distinct Control Panel

- Simple one handed operation
- Easy to program with gloves on
- Foil keyboard
- Permanent indication of preset and actual values
- Selection of speed in both rpm and g-force, with increments of 10
- 10 acceleration and deceleration rates, possibility of unbraked deceleration
- Temperature range from -20°C bis 40°C with 1°C increments
- Pre-cooling program
- Standstill cooling
- Pre-selection of the running time from 10 s to 99 h 59 min or continuous
- Storage of up to 99 runs including rotor
- Quick-key for short runs

# Accessories Z 366 and Z 366 K

## Rotor/Buckets

Order No.:  
221.15 V02  
Swing out rotor 4 places  
Angle: 0-90°



## Adapter

628.100  
PC-Screw cap



Acceleration in s: 34/309  
Deceleration in s: 36/458  
max. Speed: 4500 rpm  
RCF: 3780 xg  
max. Radius: 16,7 cm  
Temperature at max. speed: -2°C

Volume	250 ml	100 ml	50 ml	50 ml	50 ml	50 ml	25 ml	25 ml	15 ml	15 ml
ø in mm	62	41	34	29	29 conical	29 Rim	24,5	24,5 Rim	17	17 conical
Length min./max. (mm)	110/130	95/120	100/120	95/120	100/120	100/120	100/120	85/100	76/115	95/120
Tubes per rotor	4	4	4	12	12	8	20	12	36	28
Radius correction (cm)	0,8	0,6	0,6	0,4	0,3	0,4	0,6	1,2	0,4	0,4
Order-No. adapter	628.000	628.001	628.008	628.002	628.005	628.006	628.003	628.010	628.004	628.007

  

Volume	15 ml	10 ml	9 ml	5-7 ml	1,6-7 ml	4-10 ml	2,6-5 ml	4-10 ml	1,5-2,0 ml
ø in mm	17 Rim	16	14	13	13	16	13	15	11
Length min./max. (mm)	100/120	80/100	76/115	65/120	75/120	75/100	65/100	75/100	38
Tubes per rotor	28	32	36	56	40	32	40	32	36
Radius correction (cm)	0,6	0,4	0,4	0,8	0,8	0,4	0,8	0,4	1,0
Order-No. Adapter	628.011	628.012	628.004	628.013	628.014	628.015	628.014	628.015	628.016

Order No.:  
221.16 V03



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

Acceleration in s: 43/452  
Deceleration in s: 38/616  
max. speed: 4500 rpm  
RCF: 2720 xg  
max. radius: 12 cm  
max. loading high: 63 mm  
max. loading weight: 310 g  
Temp. at max. speed: -3°C

Order No.:  
706.000 Tube rack  
48 x 1,5 ml (2,0 ml)

Order No.:  
220.87 V09



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

Acceleration in s: 25/251  
Deceleration in s: 26/610  
Acceleration in s: 30/249  
Deceleration in s: 27/635  
max. speed: 15000/16000 rpm  
max. RCF: 21382/24321 xg  
max. radius: 8,5 cm  
max. ø: 11 mm  
Temp. at max. speed: 3°C

Order Nr.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2,0 ml	11	40
without	1 x 1,5 ml	11	40
704.005	1 x 0,5 ml	8	45
704.004	1 x 0,4/0,2 ml PCR	6	45

Order No.:  
220.87 V10



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

Acceleration in s: 25/251  
Deceleration in s: 26/610  
Acceleration in s: 20/249  
Deceleration in s: 27/635  
max. speed: 15000/16000 rpm  
max. RCF: 21382/24321 xg  
max. radius: 8,5 cm  
max. ø: 11 mm  
Temp. at max. speed: 3°C

Order Nr.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2,0 ml	11	40
without	1 x 1,5 ml	11	40
704.005	1 x 0,5 ml	8	45
704.004	1 x 0,4/0,2 ml PCR	6	45

Order No.:  
221.18 V02



Angle rotor 6 x 85 ml  
Angle: 38°

Acceleration in s: 85/697  
Deceleration in s: 70/2313  
max. speed: 11000 rpm  
RCF: 15556 xg  
max. radius: 11,5 cm  
max. ø: 38 mm  
Temp. at max. speed: 6°C

Order Nr.:	Tube rack	ø (mm)	Length (min./max.)
707.001	1 x 15 ml	17	103/110
707.002	1 x 30 ml	25	90/103
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml conical	29	118
707.014	1 x 15 ml conical	17	120
without	1 x 85 ml	38	113
707.000	2 x 15 ml	17	95/100
707.015	1 x 16 ml	18	103/110

# Accessories Z 366 and Z 366 K

Rotor/Buckets	Adapter				
<p><b>Order No.:</b> 221.19 V02</p>  <p>Angle rotor 30 x 15 ml Angle: 35°</p>	<p>Acceleration in s: 25/149 Deceleration in s: 20/985 max. speed: 4500 rpm RCF: 2830 xg max. radius: 12,5 cm max. ø: 17 mm Temp. at max. speed: -12°C</p>	<p><b>Order Nr.:</b> without 701.011 701.012 701.015</p>	<p><b>Tube rack</b> 1 x 15 ml-glass 1 x 7 ml 1 x 5 ml (RIA) 1 x 1,5 ml</p>	<p><b>ø (mm)</b> 17,5 13,5 13,5 11,0</p>	<p><b>Length (min./max.)</b> 95/115 95/115 70/90 42</p>
<p><b>Order No.:</b> 221.20 V02</p>  <p>Angle rotor 4 x 85 ml Angle: 30°</p>	<p>Acceleration in s: 60/506 Deceleration in s: 49/1745 max. speed: 12000 rpm RCF: 14807 xg max. radius: 9,2 cm max. ø: 38 mm Temp. at max. speed: 5°C</p>	<p><b>Order No.:</b> 707.001 707.002 707.003 707.004 707.014 without</p>	<p><b>Tube rack</b> 1 x 15 ml 1 x 30 ml 1 x 50 ml 1 x 50 ml conical* 1 x 15 ml conical* 1 x 85 ml</p>	<p><b>ø (mm)</b> 17 25 29 29 17 38</p>	<p><b>Length (min./max.)</b> 103/110 90/103 105 118 120 113</p>
<p><b>Order No.:</b> 221.21 V02</p>  <p>Angle rotor 6 x 250 ml Angle: 28°</p>	<p>Acceleration in s: 130/664 Deceleration in s: 92/2906 max. speed: 8000 rpm RCF: 10017 xg max. radius: 14 cm max. ø: 62 mm Temp. at max. speed: 3°C</p>	<p><b>Order No.:</b> 713.042 713.030 713.028 713.025 713.020 713.015 without</p>	<p><b>Tube rack</b> 1 x 50 ml conical 1 x 50 ml 2 x 30 ml 4 x 15 ml conical 5 x 10 ml 8 x 1,5 ml 1 x 250 ml</p>	<p><b>ø (mm)</b> 29 29 26 17 16 11 62</p>	<p><b>Length (min./max.)</b> 118 103 92 120 80 40 122</p>
<p><b>Order No.:</b> 221.22 V02</p>  <p>Angle rotor 6 x 50 ml Angle: 26°</p>	<p>Acceleration in s: 48/446 Deceleration in s: 49/1323 max. speed: 13000 rpm RCF: 15871 xg max. radius: 8,4 cm max. ø: 29 mm Temp. at max. speed: 0°C</p>	<p><b>Order No.:</b> without 708.019 708.003 708.004 708.017</p>	<p><b>Tube rack</b> 1 x 50 ml 1 x 30 ml 1 x 16 ml 1 x 15 ml 1 x 15 ml conical*</p>	<p><b>ø (mm)</b> 29 25 18 17 17,5</p>	<p><b>Length (min./max.)</b> 95/115 92/95 100/105 100/105 116/125</p>
<p><b>Order No.:</b> 221.28 V02</p>  <p>Angle rotor 20 x 10 ml Angle: 30°</p>	<p>Acceleration in s: 54/512 Deceleration in s: 47/1439 max. speed: 12000 rpm RCF: 15777 xg max. radius: 9,8 cm max. ø: 16 mm Temp. at max. speed: 0°C</p>	<p><b>Order Nr.:</b> without</p>	<p><b>Tube rack</b> 1 x 10 ml</p>	<p><b>ø (mm)</b> 16</p>	<p><b>Length (min./max.)</b> 80</p>
<p><b>Order No.:</b> 221.52 V02</p>  <p>Angle rotor 10 x 50 ml conical Angle: 38°</p>	<p>Acceleration in s: 115/753 Deceleration in s: 72/2395 max. speed: 9000/10500 rpm RCF: 11770/16020 xg max. radius: 13 mm max. ø: 29 mm Temp. at max. speed: 4°C ø Tubes in mm: Length in mm: Adapter Order-No.:</p>	<p>50 ml conical 15 ml conical 15 ml</p>    <p>29 118 without</p>	<p>17 121 708.030</p>	<p>17 97-116 708.030</p>	

