

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 24325 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:	21379 / 24325 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: 2716 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 V16



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: 21379/24325 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 V15



Angle rotor 24 x 1,5/2,0 ml
Angle: 45° | aerosol-tight

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: 21379/24325 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
Acceleration in s: 118/825
Deceleration in s: 76/1630
max. speed: 11000/13000 rpm
RCF: 15555/21726 xg
max. radius: 11,5 cm
max. ø: 38 mm
Temp. at max. speed: 15°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>Order No.: 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>Order Nr.: without 701.011 701.012 701.015</p>	<p>Tube rack 1 x 15 ml-glass 1 x 7 ml 1 x 5 ml (RIA) 1 x 1,5 ml</p>	<p>ø (mm) 17,5 13,5 13,5 11,0</p>	<p>Length (min./max.) 95/115 95/115 70/90 42</p>
<p>Order No.: 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: 14809 xg max. radius: 9,2 cm max. ø: 38 mm Temp. at max. speed: 5°C</p>	<p>Order No.: 707.001 707.002 707.003 707.004 707.014 without</p>	<p>Tube rack 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>ø (mm) 17 25 29 29 17 38</p>	<p>Length (min./max.) 103/110 90/103 105 118 120 113</p> <p>* only without rotor lid</p>
<p>Order No.: 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: 10016 xg max. radius: 14 cm max. ø: 62 mm Temp. at max. speed: 3°C</p>	<p>Order No.: 713.042 713.030 713.028 713.025 713.020 713.015 without</p>	<p>Tube rack 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>ø (mm) 29 29 26 17 16 11 62</p>	<p>Length (min./max.) 118 103 92 120 80 40 122</p>
<p>Order No.: 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: 15869 xg max. radius: 8,4 cm max. ø: 29 mm Temp. at max. speed: 0°C</p>	<p>Order No.: without 708.019 708.003 708.004 708.017</p>	<p>Tube rack 1 x 50 ml 1 x 30 ml 1 x 16 ml 1 x 15 ml 1 x 15 ml conical*</p>	<p>ø (mm) 29 25 18 17 17,5</p>	<p>Length (min./max.) 95/115 92/95 100/105 100/105 116/125</p> <p>* only without rotor lid</p>
<p>Order No.: 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: 15775 xg max. radius: 9,8 cm max. ø: 16 mm Temp. at max. speed: 0°C</p>	<p>Order Nr.: without</p>	<p>Tube rack 1 x 10 ml</p>	<p>ø (mm) 16</p>	<p>Length (min./max.) 80</p>
<p>Order No.: 221.52 V02</p>  <p>Angle rotor 10 x 50 ml Falcon Angle: 38°</p>	<p>Acceleration in s: 22/219 Deceleration in s: 23/369 Acceleration in s: 115/753 Deceleration in s: 65/2395 max. speed: 9000/10500 rpm RCF: 11771/16022 xg max. radius: 13 mm max. ø: 29 mm Temp. at max. speed: 9°C</p>	<p>ø Tubes in mm: 118 Adapter Order-No.: without</p>	<p>50 ml conical  118 without</p>	<p>15 ml conical  121 708.030</p>	<p>15 ml  17 708.030</p>
<p>Order No.: 220.88 V09</p>  <p>Angle rotor 44 x 1,5/2,0 ml Angle: 32°/55°</p>	<p>Acceleration in s: 29/257 Deceleration in s: 28/436 Acceleration in s: 31/274 Deceleration in s: 29/485 max. speed: 15000/16000 rpm RCF: 21128/24039 xg max. radius: 8,4 cm max. ø: 11 mm Temp. at max. speed: 8°C</p>	<p>Order Nr.: without without 704.005 704.004</p>	<p>Tube rack 1 x 2,0 ml 1 x 1,5 ml 1 x 0,5 ml 1 x 0,4/0,2 ml PCR</p>	<p>ø (mm) 11 11 8 6</p>	<p>Length (min./max.) 40 40 45 45</p>

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Package Options for Universal Centrifuges

- Z 366
- Z 366 K



Rotor No.:
221.61 V01



■ Packages Z 366 / Z 366 K + 221.61 V01

With the Swing Out Rotor 221.61 V01, you have the possibility to spin a large quantity of conical, blood tubes or micro tubes.

For high volume, there is an adapter for 250 ml bottles available, as well!

Universal Centrifuge
Z 366

Rotor No.:
221.61 V01

Package Z 366
Order No.:



301.00 P05 - 230V version
301.00 P06 - 120V version

Universal Centrifuge
Z 366 K

Rotor No.:
221.61 V01

Package Z 366 K
Order No.:



319.00 P03 - 230V version
319.00 P04 - 120V version

For Rotor 221.61 V01, there are 7 different adapters/buckets available.
Order Nos.: 630.000, 630.001, 630.002, 630.003, 630.004, 630.005 and 628.016

ATTENTION: These are NOT included in the package - Must be ordered separately!


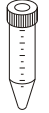

Order No.: 221.61 V01







Acceleration s: 34/311
Deceleration s: 36/387
Acceleration s: 34/307
Deceleration s: 35/487
Max. Speed: 4,500 rpm
Max. RCF: 3,735 xg
Max. Radius: 16.5 cm
Temp. At Max. Speed: 2°C

Swing Out Rotor 4 places
Angle: 0-90°

*Please Note, Adapter 628.016 can only be used in Bucket 630.004!

Volume	250 ml	50 ml	15 ml
Ø in mm	62	29	17
			
Length min./max. (mm):	122	116	121
Tubes per rotor:	4	16	40
Order No. Adapter:	630.004	630.000	630.001

	Monovets/Vacutainer 6-10 ml	Monovets/Vacutainer 1.1-7ml	Monovets/Vacutainer 2-3 ml	1.5/2.0 ml
Volume	6-10 ml	1.1-7ml	2-3 ml	1.5/2.0 ml
Ø in mm	16	13	11	11
				
Length min./max. (mm):	92/100	75/100	66	38
Tubes per rotor:	48	56	72	36
Order No. Adapter:	630.003	630.002	630.005	628.016*