

Universal Centrifuges

| Z 366

| Z 366 K



HERMLE
LABORTECHNIK

6 x 250 ml

Z 366

Z 366 K



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 40 x 15 ml conical tubes and centrifugal forces up to 24,325 xg, turning these table top centrifuges Z 366 and Z 366 K into universal high-powered centrifuges.

Technical Data

max. Speed:	15,000 / 16,000 rpm
max. RCF:	21,379 / 24,325 xg
max. Volume:	6 x 250 ml
Speed range:	200 - 15,000 / 16,000 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 (W x H x D)
Z 366 K:	72 cm x 36 cm x 51 cm (W x H x D)

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 to 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
- Timer: the centrifuge starts at the preselected time

Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven 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)
- 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
- Stainless steel chamber

Zubehör Z 366 und Z 366 K

Rotor/Bucket	Adapter																																																																																							
Order No.: 221.15 V20 Swing out rotor 4 place Angle: 0-90° 	628.100 PC-Screw cap  Acceleration in s: 34/309 Deceleration in s: 36/458 Max. speed: 4,500 rpm Max. RCF: 3,780 xg Max. radius: 16.7 cm Temp. at max. speed: -2°C																																																																																							
<table border="1"> <thead> <tr> <th>Volume</th> <th>290ml</th> <th>250 ml</th> <th>100 ml</th> <th>50 ml</th> <th>50 ml</th> <th>50 ml</th> <th>50 ml</th> <th>25 ml</th> <th>25 ml</th> <th>15 ml</th> </tr> </thead> <tbody> <tr> <td>ø in mm</td> <td>62</td> <td>62</td> <td>41</td> <td>34</td> <td>29</td> <td>29</td> <td>29</td> <td>24,5</td> <td>24,5</td> <td>17</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>conical</td> <td>Rim</td> <td></td> <td>Rim</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Length min./max. (mm)</td> <td>137</td> <td>110 / 130</td> <td>95 / 120</td> <td>100 / 120</td> <td>95 / 120</td> <td>116</td> <td>100 / 120</td> <td>100 / 120</td> <td>85 / 100</td> <td>76 / 115</td> </tr> <tr> <td>Tubes per rotor</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>12</td> <td>12</td> <td>8</td> <td>20</td> <td>12</td> <td>36</td> </tr> <tr> <td>Radius correction (cm)</td> <td>0,6</td> <td>0,7</td> <td>0,5</td> <td>0,6</td> <td>0,1</td> <td>0,0</td> <td>0,6</td> <td>0,3</td> <td>0,9</td> <td>0,1</td> </tr> <tr> <td>Order No. Tube rack</td> <td>628.017</td> <td>628.000</td> <td>628.001</td> <td>628.008</td> <td>628.002</td> <td>628.005</td> <td>628.006</td> <td>628.003</td> <td>628.010</td> <td>628.004</td> </tr> </tbody> </table>	Volume	290ml	250 ml	100 ml	50 ml	50 ml	50 ml	50 ml	25 ml	25 ml	15 ml	ø in mm	62	62	41	34	29	29	29	24,5	24,5	17							conical	Rim		Rim													Length min./max. (mm)	137	110 / 130	95 / 120	100 / 120	95 / 120	116	100 / 120	100 / 120	85 / 100	76 / 115	Tubes per rotor	4	4	4	4	12	12	8	20	12	36	Radius correction (cm)	0,6	0,7	0,5	0,6	0,1	0,0	0,6	0,3	0,9	0,1	Order No. Tube rack	628.017	628.000	628.001	628.008	628.002	628.005	628.006	628.003	628.010	628.004
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Volume	15ml	13-15 ml	10 ml	9 ml	5-7 ml	1,8-7 ml	6-10 ml	2,6-5 ml	4-10 ml	1,5-2,0 ml																																																																														
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Length min./max. (mm)	120	100 / 120	80 / 100	76 / 115	65 / 120	75 / 100	100	65 / 92	75 / 92	40																																																																														
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Radius correction (cm)	0,0	0,3	0,1	0,1	0,5	0,5	0,1	0,5	0,1	0,8																																																																														
Order No. Tube rack	628.007	628.011	628.012	628.004	628.013	628.014	628.015	628.014	628.015	628.016*																																																																														
Order No.: 221.16 V20  Swing out rotor 2 x 3 Microtitreplates Angle: 0-90°	Acceleration in s: 43/432 Deceleration in s: 38/616 Max. speed: 4,500 rpm Max. RCF: 2,716 xg Max. radius: 12 cm max. loading height: 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 V21  Angle rotor 24 x 1.5/2.0 ml Angle: 45°	Acceleration in s: 22/219 Deceleration in s: 23/369 Acceleration in s: 26/231 Deceleration in s: 23/392 Max. speed: 15,000/16,000 rpm Max. RCF: 21,379/24,325 xg Max. radius: 8.5 cm Max. Ø: 11 mm Temp. at max. speed: 9°C	Order No.: without Adapter without Adapter 704.005 704.004	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	Ø [mm] 11 11 8 6	Length [min/max.]: 40 40 45 45																																																																																			
Order No.: 220.87 V20  Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed	Acceleration in s: 25/217 Deceleration in s: 24/354 Acceleration in s: 27/235 Deceleration in s: 24/490 Max. speed: 15,000/16,000 rpm Max. RCF: 21,379/24,325 xg Max. radius: 8.5 cm Max. Ø: 11 mm Temp. at max. speed: 9°C	Order No.: without Adapter without Adapter 704.005 704.004	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	Ø [mm] 11 11 8 6	Length [min/max.]: 40 40 45 45																																																																																			
Order No.: 221.18 V20  Angle rotor 6 x 85 ml Angle: 38°	Acceleration in s: 72/697 Deceleration in s: 62/1,714 Acceleration in s: 118/825 Deceleration in s: 76/1,630 Max. speed: 11,000/13,000 rpm Max. RCF: 15,555/21,726 xg Max. radius: 11.5 cm Max. Ø: 38 mm Temp. at max. speed: 15°C	Order No.: without Adapter 707.003 707.004 707.002 707.015 707.000 707.001 707.014	Tube rack 1 x 85 ml 1 x 50 ml 1 x 50 ml conical 1 x 30 ml 1 x 16 ml 1 x 15 ml 2 x 15 ml 1 x 15 ml conical	Ø [mm] 38 29 29 25 18 17 17 17	Length [min/max.]: 113 105 116 90/103 103/110 95/100 103/110 120																																																																																			

Accessories Z 366 and Z 366 K

Rotor/Bucket	Adapter			
<p>Order No.: 221.19 V20</p>  <p>Angle rotor 30 x 15 ml glass or 20 x 15 ml conical Angle: 35°</p>	<p>Acceleration in s: 25/149 Deceleration in s: 19/985 Max. speed: 4,500 rpm Max. RCF: 2,830 xg Max. radius: 12.5 cm Max. Ø: 17 mm Temp. at max. speed: -12°C</p>	<p>Order No.: without Adapter without Adapter 701.011 701.012 701.015 701.018</p>	<p>Tube rack 1 x 15 ml Glass 1 x 15 ml conical 1 x 7 ml 1 x 5 ml (RIA) 1 x 1.5/2.0 ml 1 x 4.5 - 10 ml Sarstedt®</p>	<p>Ø [mm] Length [min/max.]: 17.0 95/115 17.0 120 13.5 95/115 13.5 70/90 11 40 11-16 90/92</p>
<p>Order No.: 221.20 V20</p>  <p>Angle rotor 4 x 85 ml Angle: 30°</p>	<p>Acceleration in s: 60/506 Deceleration in s: 44/1,745 Max. speed: 12,000 rpm Max. RCF: 14,809 xg Max. radius: 9.2 cm Max. Ø: 38 mm Temp. at max. speed: 5°C</p> <p><small>*only without rotor lid</small></p>	<p>Order No.: without Adapter 707.003* 707.004 707.002 707.015 707.000 707.001 707.014</p>	<p>Tube rack 1 x 85 ml 1 x 50 ml 1 x 50 ml conical* 1 x 30 ml 1 x 16 ml 1 x 15 ml 2 x 15 ml 1 x 15 ml conical*</p>	<p>Ø [mm] Length [min/max.]: 38 113 29 105 29 116 25 90/103 18 103/110 17 95/100 17 103/110 17 120</p>
<p>Order No.: 221.21 V20</p>  <p>Angle rotor 6 x 250 ml Angle: 28°</p>	<p>Acceleration in s: 130/664 Deceleration in s: 83/2,906 Max. speed: 8,000 rpm Max. RCF: 10,016 xg Max. radius: 14 cm Max. Ø: 62 mm Temp. at max. speed: 3°C</p>	<p>Order No.: without Adapter 713.045 713.042 713.030 713.028 713.025 713.020 713.015</p>	<p>Tube rack 1 x 250 ml 1 x 175/225 ml Falcon® 1 x 50 ml conical 1 x 50 ml 2 x 30 ml 4 x 15 ml conical 5 x 10 ml 8 x 1.5/2.0 ml</p>	<p>Ø [mm] Length [min/max.]: 62 122 61 118/137 29 118 29 103 26 92 17 120 16 80 11 40</p>
<p>Order No.: 221.22 V20</p>  <p>Angle rotor 6 x 50 ml Angle: 26°</p>	<p>Acceleration in s: 48/446 Deceleration in s: 44/1,323 Max. speed: 13,000 min⁻¹ Max. RCF: 15,869 xg Max. radius: 8.4 cm Max. ø: 29 mm Temp. at max. speed: 0°C</p>	<p>Order No.: without Adapter 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><small>*only without rotor lid</small></p>	<p>Ø [mm] Length [min/max.]: 29 95/115 25 92/95 18 100/105 17 100/105 17 120</p>
<p>Order No.: 221.28 V20</p>  <p>Angle rotor 20 x 10 ml Angle: 30°</p>	<p>Acceleration in s: 54/512 Deceleration in s: 42/1,439 Max. speed: 12,000 rpm Max. RCF: 15,775 xg Max. radius: 9.8 cm Max. Ø: 16 mm Temp. at max. speed: 0°C</p>	<p>Order No.: without Adapter</p>	<p>Tube rack 1 x 10 ml</p>	<p>Ø [mm] Length [min/max.]: 16 80</p>
<p>Order No.: 221.52 V20</p>  <p>Angle rotor 10 x 50 ml conical Angle: 38°</p>	<p>Acceleration in s: 69/647 Deceleration in s: 55/1,942 Acceleration in s: 115/753 Deceleration in s: 65/2,395 Max. speed: 9,000/10,500 rpm Max. RCF: 11,771/16,022 xg Max. radius: 13 mm Max. Ø: 29 mm Temp. at max. speed: 9 °C</p>	<p>Order No.: 708.050 701.011* 701.012* 701.015* 708.051</p>	<p>Tube rack 1 x 15 ml RB 1 x 7 ml 1 x 5 ml 1 x 1.5/2.0 ml 1 x 15 ml conical</p>	<p>Ø [mm] Length [min/max.]: 17 97/123 13.5 95/115 13.5 70/90 11 40 17 120</p> <p><small>*only possible with adapter 708.050 or 708.051</small></p>
<p>Order No.: 221.68 V20</p>  <p>Angle rotor 44 x 1.5/2.0 ml Angle: 32°/55°</p>	<p>Acceleration in s: 31/256 Deceleration in s: 24/327 Acceleration in s: 33/275 Deceleration in s: 26/536 Max. speed: 15,000/16,000 rpm Max. RCF: 21,379/24,325 xg Max. radius: 8.5 cm Max. Ø: 11 mm Temp. at max. speed: 8°C</p>	<p>Order No.: without Adapter without Adapter 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] Länge [min/max.]: 11 40 11 40 8 45 6 45</p>



Package Options for Universal Centrifuges

- Z 366
- Z 366 K



Rotor No.:
221.61 V20



■ Packages Z 366 / Z 366 K + 221.61 V20

With the Swing Out Rotor 221.61 V20, 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 V20

Package Z 366
Order No.:



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

Universal Centrifuge
Z 366 K

Rotor No.:
221.61 V20

Package Z 366 K
Order No.:



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

For Rotor 221.61 V20, 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 V20



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*