

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 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

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 (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 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

Accessories Z 366 and 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									
Volume ø in mm Length min./max. (mm) Tubes per rotor Radius correction (cm) Order No. Tube rack:	250 ml 62	100 ml 41	50 ml 34	50 ml 29	50 ml 29 conical	50 ml 29 Rim	25 ml 24.5	25 ml 24.5 Rim	15 ml 17	15 ml 17 conical
        	110/130 4 0.7 628.000	95/120 4 0.5 628.001	100/120 4 0.6 628.008	95/120 12 0.1 628.002	116 12 0.0 628.005	100/120 8 0.6 628.006	100/120 20 0.3 628.003	85/100 12 0.9 628.010	76/115 36 0.1 628.004	120 28 0.0 628.007
Volume ø in mm Length min./max. (mm) Tubes per rotor Radius correction (cm) Order No. Tube rack:	15 ml 17 Rim	10 ml 16	9 ml 14	5-7 ml 13	1.8-7 ml 13 Vacutainer®	6-10 ml 16 Vacutainer®	2.6-5 ml 13 Sarstedt®	4-10 ml 15 Sarstedt®	1.5-2.0 ml 11	
        	100/120 28 0.3 628.011	80/100 32 0.1 628.012	76/115 36 0.1 628.004	65/120 56 0.5 628.013	75/100 40 0.5 628.014	75/100 32 0.1 628.015	65/100 40 0.5 628.014	75/100 32 0.1 628.015	40 36 0.8 628.016*	*only possible with adapter 628.000
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 V22  PPS-Lid Angle rotor 24 x 1.5/2.0 ml Angle: 45° hermetically sealed	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  Alu-Lid 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 V21  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 2 x 15 ml 1 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				
Order No.: 221.19 V20  Angle rotor 30 x 15 ml glass or 20 x 15 ml conical Angle: 35°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 15 ml Glass	17.0	95/115
		707.003	1 x 15 ml conical	17.0	120
		701.011	1 x 7 ml	13.5	95/115
		701.012	1 x 5 ml (RIA)	13.5	70/90
		701.015	1 x 1.5/2.0 ml	11	40
		701.018	1 x 9 ml Sarstedt®	17	92/107
Order No.: 221.20 V20  Angle rotor 4 x 85 ml Angle: 30°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 85 ml	38	113
		707.003	1 x 50 ml	29	105
		707.004	1 x 50 ml conical*	29	116
		707.002	1 x 30 ml	25	90/103
		707.015	1 x 16 ml	18	103/110
		707.000	2 x 15 ml	17	95/100
		707.001	1 x 15 ml	17	103/110
		707.014	1 x 15 ml conical*	17	120
			*only without rotor lid		
Order No.: 221.21 V20  Angle rotor 6 x 250 ml Angle: 28°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 250 ml	62	122
		713.045	1 x 175/225 ml Falcon®	61	118/137
		713.042	1 x 50 ml conical	29	118
		713.030	1 x 50 ml	29	103
		713.028	2 x 30 ml	26	92
		713.025	4 x 15 ml conical	17	120
		713.020	5 x 10 ml	16	80
		713.015	8 x 1.5/2.0 ml	11	40
Order No.: 221.22 V20  Angle rotor 6 x 50 ml Angle: 26°	Acceleration in s: 48/446 Deceleration in s: 44/1,323 Max. speed: 13,000 rpm Max. RCF: 15,869 xg Max. radius: 8.4 cm Max. Ø: 29 mm Temp. at max. speed: 0°C	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 50 ml	29	95/115
		708.019	1 x 30 ml	25	92/95
		708.003	1 x 16 ml	18	100/105
		708.004	1 x 15 ml	17	100/105
		708.017	1 x 15 ml conical*	17	120
			*only without rotor lid		
Order No.: 221.28 V21  Angle rotor 20 x 10 ml Angle: 30°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 10 ml	16	80
Order No.: 221.52 V20  Angle rotor 10 x 50 ml conical Angle: 38°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		708.050	1 x 15 ml RB	17	97/123
		701.011*	1 x 7 ml	13.5	95/115
		701.012*	1 x 5 ml	13.5	70/90
		701.015*	1 x 1.5/2.0 ml	11	40
		708.051	1 x 15 ml conical	17	120
			*only possible with adapter 708.050 or 708.051		
Order No.: 221.68 V20  Angle rotor 44 x 1.5/2.0 ml Angle: 32°/55°	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	Order No.:	Tube rack	Ø (mm)	Length (min./max.)
		without Adapter	1 x 2.0 ml	11	40
		without Adapter	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

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*