Large Volume Centrifuges

ZK 496 Floor-Standing Centrifuge

ZK 496 Underbench Centrifuge









ZK 496



Features:

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic rotor identification system with over speed protection
- Active imbalance identification and cut-off (rotor-specific)
- CFC-free refrigeration system
- Wide range of rotors and accessories
- Audible signal at the end of each run, with several melody options
- Stainless steel chamber
- Manufactured in accordance to International Safety Regulations, i.e. IEC 61010

With the new series of refrigerated centrifuges, the ZK 496 model can process a large volume of samples, a max. of 4 x 1,000 ml bottles as well as blood bags. As known by HERMLE, there is a wide range of adapters "on hand", at your convenience. The centrifuges are available in two different working heights: a floor-standing model and an underbench model, both equipped with mounted wheels. The wheels enable easier maneuvering around the laboratory.

Technical Data

Max. Speed: 10,500 rpm
Max. RCF: 16,022 xg
Max. Volume: 4 x 1,000 ml
Speed range: 200 - 10,500 rpm

Running time: 59 min 50 sec / 10 s increments 99 h 59 min / 1 min increments

Dimensions (W x H x D):

Underbench Unit: 62 cm x 70 cm x 69 cm Floor-Standing Unit: 62 cm x 98 cm x 69 cm

Weight:

Underbench Unit: 157 kg Floor-Standing Unit: 190 kg Power input: 2.3 KW

Ordering Information

Underbench Unit: 313.00 V01 - ZK 496, 230 V / 50 - 60 Hz Floor-Standing Unit: 313.00 V02 - ZK 496, 230 V / 50 - 60 Hz Interface incl. operating software: 800.001



Distinct Control Panel

- Simple one-handed operation
- Easy to program with gloves on
- Splash-proof
- Permanent indication of pre-set and actual values
- Selection of speed in both rpm and g-force, in increments of 10
- 10 acceleration and deceleration rates, possibility of unbraked deceleration
- Temperature range from -20°C to 40°C, in increments of 1°C
- 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 ZK 496

Rotor/Bucket

Adapter

Order No.: 221.65 V01 Swing out rotor 4 place Angle: 0-90°





Rectangular bucket/Microtiter bucket





Acceleration in s: 84/328 Deceleration in s: 50/1067 Max. Speed: 4,600 rpm Max. RCF: 5,203 xg Max. Radius: 22 cm Temp. at Max. Speed: 6°C



Acceleration in s: 84/302 Deceleration in s: 53/1178 Max. Speed: 4,200 rpm Max. RCF: 3,964 xg Max. Radius: 20.1 cm Max. Loading Hight: 92 mm Max. Loading Weight: 1,200 g Temp. at Max. Speed: 11°C



616.102 PC-Screw cap hermetical sealable, for round bucket 621.000



621.007 PC-Cap hermetical sealable, for bucket 621.005



621.006 Removing aid for microtiter plates

Adapters for Rectangular Bucket 621.005

				Corning [®]			Falcon [®]					
	Volume	750 ml	650 ml	500 ml**	500 ml	250-290 ml	175/225**n	nl 100 ml	50 ml	50 ml*	15 ml*	5 ml
Rectangular Bucket	ø in mm	97	97	97	97	61	61	40	29	29	17	17
Order No.: 621.005												
												P
	Length min./max. (mm) Tubes per Rotor	152 4	136 4	148 4/0	114 4	122-137 8	118/137 8	102/123 12	90/120 40	116 40/32	121 96/72	121 96
	Radius Correction (cm)	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.1	0.1	0.1	0.1

Vacutainer®/Sarste							
5.5-12 ml	2.6-8 ml						
16	13						
60/120 124 0.1	65/100 184 0.1 718.004						
	5.5-12 ml 16 60/120 124						

- * Only applicable with combination of 718.007 + 716.110
 ** Only applicable with combination of 718.003 + 718.008
- * Smaller number of tubes while using PC-Cap 621.007

Adapters for Round Bucket 621.000

Corning® Corning® skirted Volume 1000 ml 750 ml 650 ml 500 ml 500 ml 500 ml 250 ml 250 ml 175/225 ml 100 ml 50 ml 50 ml 50 ml 30 ml Round Bucket 97 97 69.4 ø in mm 63 29 29 29 25 Order No.: 621.000 Length min./max. (mm)
Tubes per Rotor 173/178 152 148 114 180 135 118/137 102/123 102/123 100/120 102/123 12 28 20 20 32 0 0 0.5 0.4 0.5 Order No. Adapter without without without 716.110 without 716.026 716.025 716.024 716,100 716.023 716.021 716.101

					Vacutainer®		Sarstedt [®]					
Volume	12/15 ml	15 ml	10 ml	5/7 ml	5-10 ml	1.8-7 ml	9-10 ml	4-8.2 ml	2.6-4.9 ml	2-5 ml	1.1-1.4 ml	П
ø in mm	17	17	16	13	16	13	16	16	13	11	8	Ī
Length min./max. (mm)	97/120	121	60/100	65/120	75/100	65/100	92	75-92	65/100	66-92	66	
Tubes per Rotor	72	48	84	140	72	84	72	72	84	84	152	
Radius Correction (cm)	0.1	0.1	0.9	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	
Order No. Adapter	716.018	716.019	716.015	716.014	716.105	716.106	716.105	716.105	716.106	716.106	716.109	

Accessories ZK 496

Rotor/Bucket

Adapter

Order No.: 221.65 V01 Swing out rotor 4 Places

Angle: 0-90°

Order No.: 621.015 Blood bag bucket for 500 ml



Order No.: 621.010





Acceleration in s: 59/409

Acceleration in s: 62/328 Deceleration in s: 48/981 Max. Speed: 4,600 rpm Max. RCF: 5,298 xg Max. Radius: 22.4 cm Temp. at Max. Speed: 12°C



Acceleration in s: 82/324 Deceleration in s: 50/1111 Max. Speed: 4,600 rpm Max. RCF: 5,274 xg Max. Radius: 22.3 cm Temp. at Max. Speed: 8°C

Order No.: 221.51 V02



Angle Rotor: 4 x 500 ml Angle: 24°

Deceleration in s: 81/1834 Max. Speed: 8,000 rpm Max. RCF: 10,374 xg Max. Radius: 14.5 cm Max. ø: 69.5 mm Temp. at Max. Speed: 1°C

Order No.: Tube Rack Length (min./max.) ø (mm) 712.105 6 x 15 ml conical 17 120 712.103 25.5 92 4 x 30 ml 712.104 3 x 50 ml 29 103 29.5 712.101 1 x 50 ml conical 115 1 x 225 ml Falcon® 712.100 61.5 137 712.100 1 x 175 ml Falcon® 61.5 118 1 x 250 ml Corning® 171 712.102 60.5 712.001 1 x 250 ml 61.5 195 1 x 500 ml 69.5 165 without

Order No.: 221.21 V02



Angle Rotor: 6 x 250 ml Angle: 28°

Acceleraton in s: 53/407	Order No.:	Tube Rack	ø (mm)	Length (min./max.)
Deceleration in s: 82/1667	713.015	8 x 1.5/2.0 ml	11	42
Max. Speed: 8,000 rpm	713.020	5 x 10 ml	16	80
Max. RCF: 10,016 xg	713.025	4 x 15 ml conical	17	120
Max. Radius: 14.0 cm	713.028	2 x 30 ml	26	92
Max. ø: 62 mm	713.030	1 x 50 ml	29	103
Temp. at Max. Speed: -1°C	713.042	1 x 50 ml conical	29	118
	without	1 x 250 ml	62	122

Order No.: 221.52 V02



Angle Rotor 10 x 50 ml conical Angle: 38°

Acceleration in s: 53/441 Deceleration in s: 71/1411 Max. Speed: 10,500 rpm Max. RCF: 16,022 xg Max. Radius: 13.0 cm Max. ø: 29 mm Temp. at max. speed: 3°C

Order No.: 708.050 701.011* 701.012* 701.015* 708.051

Length (min./max.) Tube Rack ø (mm) 1 x 15 ml RB 17 97/123 1 x 7 ml 13.5 95/115 70/90 1 x 5 ml 13.5 1 x 1.5/2.0 ml 42 11 1 x 15 ml conical 121 17

* Only applicable with adapter 708.050 or 708.051

ZK 496 Floor-Standing Centrifuge

With its drawer, the Floor-Standing model allows the possibility to store your accessories, so that they are within reach.



The Perfect Fit



Easy Handling:

- The ergonomic control panel is very user-friendly and enables a smooth and swift operation process.
- There is no need to remove surgical gloves, during operation.
- Strictly a HERMLE application, you can store up to 99 different programs.
- Both versions are equipped with wheels, this way the unit is easy for you to maneuver around the laboratory, to the most convenient location. There is also a mechanism to fix the centrifuge, with the existing feet.
- Make yourself comfortable; operate this model from your laptop or computer. Our multi-functional software, "H-Control", allows you to control the centrifuge independently and save your protocols, (this function has to be ordered separately).
- For re-assurance that your samples are finished, an acoustic signal will sound when the centrifugation is complete (this function can be de-activated).

Safety:

- The ZK 496 has an automatic imbalance shut off system.
- There is over speed protection incorporated for each rotor.
- You can only start the unit when the centrifuge lid is closed.
- In case of operation malfunction, an error code will appear on the display; this helps to indicate the reason for the malfunction and to eliminate it.
- Its' stable and firm design,made of massive steel, ensures excellent mechanical protection.

Efficient and Versatile:

- Due to the wide range of bucket and rotor options, the ZK 496 can hold all common tubes and bottles, up to 1,000 ml.
- Profit from our "pre-cooling" function, cool down the rotor rapidly to your desired temperature. For this, the centrifuge automatically determines the necessary speed for each individual rotor.
- Keep dangerous and hazardous aerosols locked; there are hermetical sealable buckets available, for the ZK 496 swing out rotor.
- Save space in your laboratory. The Underbench Centrifuge can be easily placed below a standard laboratory table.
- The Floor-Standing-Centrifuge is supplied with a drawer which is very useful for storing your accessories.

More from Hermle a wide range of options





Microlitre Centrifuge Z 207 M

Max. Speed: 13,500 rpm Max. Volume: 24 x 1.5/2.0 ml Large-Volume Centrifuge Z 446

Max. Speed: 16,000 rpm Max. Volume: 4 x 750 ml

For more Information, please visit our website!

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Visit us at: www.hermle-labortechnik.de LABORTECHNIK

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