Large Volume Centrifuges ZK 496 Floor-Standing Centrifuge ZK 496 Underbench Centrifuge









ZK 496

Underbench Centrifuge

Floor-Standing Centrifuge

Features:

- 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
- 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 ($W \times H \times D$):

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
- Timer: the centrifuge starts at the preselected time

Accessories ZK 496

Rotor/Bucket

Order No.: 221.65 V20 Swing out rotor 4 place Angle: 0-90°



Adapter

Order No.: 621.000 Round bucket



Acceleration in s: 84/328 Deceleration in s: 50/1,067 Max. Speed: 4,600 rpm Max. RCF: 5,203 xg Max. Radius: 22 cm Temp. at Max. Speed: 9°C Order No.: 621.005 Rectangular bucket/Microtiter bucket



Acceleration in s: 84/302 Deceleration in s: 53/1,178 Max. Speed: 4,200 rpm Max. RCF: 3,964 xg Max. Radius: 20.1 cm Max. Loading Height: 92 mm Max. Loading Weight: 1,200 g Temp. at Max. Speed: 4°C



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



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**ml	100 ml	50 ml	50 ml	15 ml	5 ml	
ectangular Bucket Order No.: 621.005	ø in mm	99	99	97	99	62	61	40	29	29	17	17	
ê												Ĩ	
	Length min./max. (mm)	152	136	148	114	122/137	118/137	102/123	90/120	116	120	60/70	
	Tubes per Rotor	4	4	4	4	8	8	12	40	40	96	96	
	Radius Correction (cm) Order No. Adapter	0.5 718.007	0.5 718.007	0.5 718.007	0.5 718.007	0.4 718.003	0.5 718.008	0.5 718.010	0.1 718.009	0.1 718.001	0.1 718.013	0.1 718.002	
		Vacutainer [®]	/Sarstedt®										
	Volume	5.5-12 ml	2.6-8 ml										
	ø in mm	16	13										
									ly applicable with combination of 718.007 + 716.110 Iy applicable with combination of 718.003 + 718.008				
	Length min./max. (mm) Tubes per Rotor Radius Correction (cm) Order No. Adapter	60/120 152 0.1 718.005	65/100 192 0.1 718.004										

Adapters for Round Bucket 621.000

					Corning®			Corning®		Falcon®				skirted	
	Volume	1000 ml	750 ml	650 ml	500 ml	500 ml	500 ml	250 ml	250/290 n	n i 175/225 m	nl 100 ml	50 ml	50 ml	50 ml	30 ml
Round Bucket	ø in mm	99	99	99	97	99	69.5	60	62	61	40	29	29	29	25
Order No.: 621.000															
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			\sim	\sim	•	\sim	\sim	•	\sim		<u> </u>			192	
	Length min./max. (mm)	173/178	152	136	148	114	165	159	122/137	118/137	102/123	102/123	116	100/120	102/12
	Tubes per Rotor	4	4	4	4	4	4	4	4	4	12	28	20	20	32
	Radius Correction (cm)	0	0	0	0.5	0	0.5	0.4	0.5	0.2	0.5	0.1	0.1	0.1	0.1
	Order No. Adapter	without	without	without	716.110	without	716.026	716.025	716.024	716.100	716.023	716.021	716.101	716.111	716.020
						Vacutainer		Sarstedt [®]							
	Volume	12/15 ml	15 ml	10 ml	5/7 ml	6-10 ml	1.8-7 ml	9-10 ml	4-8.2 ml	2.6-4.9 ml	2-5 ml	1.1-1.4 m	1		
	ø in mm	17	17	16	13	16	13	16	15	13	11	8			
		9	8	9	9	0		â.				£.			
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						_				-					
			V					I	T	T	╨	I			
	Length min./max. (mm)	97/120	120	60/100	65/120	75/100	75/100	92	75/92	65/90	66/92	66			
	Lengui min./mdx. (mm)	51/120													
		72	48	84	140	72						152			
	Tubes per Rotor Radius Correction (cm)	72 0.1	48 0.1	84 0.9	140 0.2	72 0.3	84 0.3	72 0.3	72 0.3	84 0.3	84 0.3	152 0.4			

Accessories ZK 496

Rotor/Bucket

Angle: 38°

Order No.: 221.65 V20 Swing out rotor 4 Places Angle: 0-90°

Adapter

Order No.: 621.015 Blood bag bucket for 500 ml



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: 7°C

718.012 Adapter for bucket 621.015

Order No.: 621.010 Blood bag bucket for 750 ml



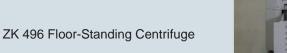
Acceleration in s: 82/324 Deceleration in s: 50/1,111 Max. Speed: 4,600 rpm Max. RCF: 5,274 xg Max. Radius: 22.3 cm Temp. at Max. Speed: 9°C



718.011 Adapter for bucket 621.010

Order No.: 221.51 V20	Acceleraton in s: 59/409 Deceleration in s: 81/1,834 Max. Speed: 8,000 rpm Max. RCF: 10,374 xg Max. Radius: 14.5 cm Max. ø: 69.5 mm Temp. at Max. Speed: -5°C	Order No.: without adapter 712.001 712.102 712.100 712.100 712.104	Tube Rack 1 x 500 ml 1 x 250 ml 1 x 250 ml Corning® 1 x 225 ml Falcon® 1 x 175 ml Falcon® 3 x 50 ml	ø (mm) 69.5 62 60 61 61 29	Length (min./max.) 165 122 159 137 118 103
Angle Rotor: 4 x 500 ml Angle: 24°		712.101 712.103 712.105	1 x 50 ml conical 4 x 30 ml 6 x 15 ml conical	29 26 17	116 92 120
Order No.: 221.21 V20	Acceleraton in s: 53/407 Deceleration in s: 82/1,667	Order No.: without adapter	Tube Rack 1 x 250 ml	ø (mm) 62	Length (min./max.) 122
	Max. Speed: 8,000 rpm Max. RCF: 10,016 xg Max. Radius: 14.0 cm	713.044 713.045 713.042	1 x 250 ml Corning [®] 1 x 175/225 ml Falcon [®] 1 x 50 ml conical	60 61 29	159 118/137 116
	Max. ø: 62 mm Temp. at Max. Speed: -5°C	713.030 713.028	1 x 50 ml 2 x 30 ml	29 26	103 92
Angle Rotor: 6 x 250 ml		713.025	4 x 15 ml conical	17	120
Angle: 28°		713.020 713.015	5 x 10 ml 8 x 1.5/2.0 ml	16 11	80 40
Order No.:	Acceleraton in s: 53/441	Order No.:	Tube Rack	ø (mm)	Length (min./max.)
221.52 V20	Deceleration in s: 71/1,411 Max. Speed: 10,500 rpm	without adapter 708.050	1 x 50 ml conical 1 x 15 ml RB	29 17	116 97/123
	Max. RCF: 16,022 xg	701.011*	1 x 7 ml	13.5	95/115
SUL	Max. Radius: 13.0 cm Max. ø: 29 mm	701.012* 701.015*	1 x 5 ml 1 x 1.5/2.0 ml	13.5 11	70/90 40
	Temp. at max. speed: -1°C	708.051	1 x 15 ml conical	17	120
Angle Rotor 10 x 50 ml conical					

* Only applicable with adapter 708.050 or 708.051



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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

