



PRODUCT BROCHURE · BENCHMARK SCIENTIFIC

Z496 K V1 8.20

3 models inside · Life Science · Centrifuges



QUICK VIEW — SERIES AT A GLANCE

3 models in this document from Benchmark Scientific. Full specifications inside.

MODELS IN THIS DOCUMENT

Z496-K-UC · Z496-K-BND · Z496-K

SHIP WEIGHT

346–419 lb

SOURCING

Authorized U.S. distributor

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Large Volume Centrifuges

■ Z496-K Floor-Standing

■ Z496-K-UC Underbench



HERMLE
Benchmark 

The Perfect Fit



Easy Handling:

- The ergonomic control panel is very user-friendly
- No need to remove gloves during operation
- Strictly a HERMLE application, you can store up to 99 different programs.
- Both versions are equipped with wheels, to easily maneuver around the laboratory, to the most convenient location. There is also a mechanism to place them on the feet as well
- 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).
- An optional alarm will sound when your run is finished

Safety:

- The Z496-K has an automatic imbalance shut off system.
- There is over speed protection incorporated for each rotor.
- The centrifuge will not start until the lid is locked.
- Error code system to quickly detect issues
- Stable and firm design, made of steel, ensures excellent mechanical reliability and protection.

Efficient and Versatile:

- Due to the wide range of bucket and rotor options, the Z496 can hold all common tubes and bottles, up to 1,000 ml.
- "Pre-cooling" function specific to each rotor for maximum efficiency
- Keep dangerous and hazardous aerosols locked; hermetically sealed buckets available
- Save space in your laboratory. The Underbench model is easily placed below a standard laboratory table.
- The Floor-Standing mode; is supplied with a storage drawer which is very useful for your accessories.

4 x 1,000 ml

Z496-K



**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

The Z496-K centrifuges offer the highest tube/bottle capacity in our range. Several rotors are available, including a popular 4 position swinging bucket rotor with a wide offering of accessories for the centrifugation of tubes, bottles, plates and blood bags. The high capacity rectangular buckets accept microplates directly or a variety of tube inserts for accommodating as many as 40 x 50ml conical or 96 x 15ml conical tubes per run. A standard floor standing model is available (height: 38.6 in.) which includes a convenient lower drawer for the storage of frequently used rotors and accessories. In addition, a space saving "underbench" model (height: 27.5 in.) is available when under the counter storage is preferred. Both models are equipped with wheels for easy maneuverability around the laboratory. For all your high capacity, high volume needs, the Z496-K floor standing series is the perfect centrifuge.

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:	24.4 in x 27.5 in x 27 in 62 cm x 70 cm x 69 cm
Floor-Standing Unit:	24.4 in x 38.5 in x 27 in 62 cm x 98 cm x 69 cm

Weight:

Underbench Unit:	346 lbs / 157 kg
Floor-Standing Unit:	419 lbs / 190 kg

Power input: 2.3 KW

Ordering Information

Underbench: Z496-K-UC, 230 V / 50 - 60Hz

Floor-Standing: Z496-K, 230 V / 50 - 60 Hz

Interface incl. operating software: Z496-HCTRL



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 Z496-K

Rotor/Bucket

Order No.:
Z496-1000-AC*
4 x 1000ml Swing out rotor
Angle: 0-90°



*Z496-1000
Swing out rotor with
rectangular buckets included

Adapter

Order No.:
Z496-1000-1L
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



Z446-750-LID
PC-Screw cap hermetical
sealable, for round bucket
Z496-1000-1L

Order No.:
Z496-1000-RBUK
Rectangular bucket/Microplate 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



Z496-1000-MPRA
Removing aid for
microplates

Adapters for Rectangular Bucket

Volume	Corning®					Falcon®						
	750 ml	650 ml	500 ml**	500 ml	250/290 ml	175/225 ml**	100 ml	50 ml	50 ml	15 ml	5 ml	
Rectangular Bucket Order No.: Z496-1000-RBUK	99	99	97	99	62	61	40	29	29	17	17	
ø in mm												
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)	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.1	0.1	0.1	0.1	
Order No. Z496-1000_	-A750	-A750	-A500 ¹	-A500	-A250	-A225	-A100	-A50R	-A50	-A15	-A20	

¹Only applicable with combination of Z496-1000-A750 + Z446-750-A500

Vacutainer®/Sarstedt®			*Only applicable with combination of Z496-1000-A750 + Z446-750-A50	
Volume	5.5-12 ml	2.6-8 ml		
ø in mm	16	13		
				
Length min./max. (mm)	60/120	65/100		
Tubes per Rotor	152	192		
Radius Correction (cm)	0.1	0.1		
Order No. Adapter	-A10	-A57		
			** Bottles available for order	
				
				
			Volume	175 / 225 ml
			Part No. :	C0175 / C0225
				500 ml
				C1500

** Bottles available for order

Volume
Part No. :

175 / 225 ml
C0175 / C0225

500 ml
C1500

Adapters for Round Bucket

Volume	Corning®					Corning®		Falcon®				
	1000 ml	750 ml	650 ml	500 ml**	500 ml	250 ml**	250/290 ml	175/225 ml**	50 ml	50 ml	30 ml	
Round Bucket Order No.: Z496-1000-1L	99	99	99	97	99	69.5	60	62	61	29	29	25
ø in mm												
Length min./max. (mm)	173/178	152	136	148	114	165	159	122/137	118/137	102/123	116	102/123
Tubes per Rotor	4	4	4	4	4	4	4	4	4	28	20	32
Radius Correction (cm)	0	0	0	0.5	0	0.5	0.4	0.5	0.2	0.1	0.1	0.1
Order No. Z496-1L_	without	without	without	*-A500	without	-A500S	-A250F	*-A250	*-A225	*-A50R	*-A50-E	*-A30

Vacutainer®							
Volume	12/15 ml	15 ml	6-10 ml	1.8-7 ml			
ø in mm	17	17	16	13			
Length min./max. (mm)	97/120	120	75/100	75/100			
Tubes per Rotor	72	48	72	108			
Radius Correction (cm)	0.1	0.1	0.3	0.3			
Order No. Adapter	*-A15R	-A15	*-A10	*-A57			

*use Z446-750 as prefix

Accessories Z496-K

Rotor/Bucket

Order No.: Z496-1000-AC

4 x 1000ml Swing out rotor
Angle: 0-90°



Adapter

Order No.: Z496-500-BLD

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

Order No.: Z496-750-BLD

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

Z496-500-ADP

Adapter for bucket
Z496-500-ADP



Z496-750-ADP

Adapter for bucket
Z496-750-ADP



Order No.:
Z446-04500



Angle rotor 4 x 500 ml
Angle: 24°

Acceleration in s: 73/575
Deceleration in s: 84/2,317
max. speed: 8,000 rpm
max. RCF: 10,367 xg
max. radius: 14.5 cm
max. ϕ : 69.5 mm
Temp. at max. speed: 4°C

Order No.:
without Adapter
Z466-500-A250F
Z446-500-A250
Z446-500-A225
Z446-500-A225
Z446-500-A50
Z446-500-A15C

Tube rack	ϕ (mm)	Length (min./max.)
1 x 500 ml	69.5	165
1 x 250 ml	62	122
1 x 250 ml conical**	60	159
1 x 175 ml conical**	61	118
1 x 225 ml conical**	61	137
1 x 50 ml conical	29	116
6 x 15 ml conical	17	120

** Bottles available for order

Volume
Part No.:



Order No.:
Z366-06250



Angle rotor 6 x 250 ml
Angle: 28°

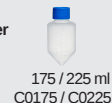
Acceleration in s: 66/573
Deceleration in s: 84/1,871
max. speed: 8,000 rpm
max. RCF: 10,016 xg
max. radius: 14 cm
max. ϕ : 62 mm
Temp. at max. speed: -1°C

Order No.:
without Adapter
Z366-06250-A225C
Z366-06250-A50
Z366-06250-A50R
Z366-06250-A30
Z366-06250-A15

Tube rack	ϕ (mm)	Length (min./max.)
1 x 250 ml	62	122
1 x 175/225 ml conical**	61	118/137
1 x 50 ml conical	29	118
1 x 50 ml	29	103
2 x 30 ml	26	92
4 x 15 ml conical	17	120

** Bottles available for order

Volume
Part No.:



Order No.:
Z326-1050



Angle rotor 10 x 50 ml conical
Angle: 38°

Acceleration in s: 53/441
Deceleration in s: 71/1,411
Max. Speed: 10,500 rpm
Max. RCF: 16,022 xg
Max. Radius: 13.0 cm
Max. ϕ : 29 mm
Temp. at max. speed: -1°C

Order No.:	Adapter	ϕ (mm)	Length (min./max.)
Z326-50-B15HS	1 x 15 ml RB	17	97/123
Z326-15-A7*	1 x 7 ml	13.5	95/115
Z326-15-A5*	1 x 5 ml	13.5	70/90
Z326-50-A15	1 x 15 ml conical	17	120

*only possible with adapter Z326-50-A15 or Z326-50-B15

Z496-K Floor-Standing Model

The Floor-Standing Model, features a storage drawer for easy access to your accessories.



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