

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°



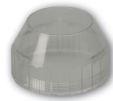
*Z496-1000
Swing out rotor with
rectangular buckets included

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 | -A500C ¹ | -A500 | -A250 | -A225 | -A100 | -A50R | -A50 | -A15 | -A5F | |
| ¹ Only applicable with combination of Z496-1000-A500C + Z446-750-A500 | | | | | | | | | | | | |
| Vacutainer®/Sarstedt® | | | | | | | | | | | | |
| 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 | 500 ml | | | | |
| | | | | | Part No. : | | C0175 / C0225 | 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 | | | | | | | | |
| | | | | | ** Bottles available for order | | | | | | | |
| | | | | | Volume | | 175 / 225 ml | 250 ml | 500 ml | | | |
| | | | | | Part No. : | | C0175 / C0225 | C1250 | C1500 | | | |
| *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. ø: 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 | ø (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.: |
|--------------|---------------|
| 175 / 225 ml | C0175 / C0225 |
| 250 ml | C1250 |
| 500 ml | C1500 |

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. ø: 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 | Ø (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.: |
|--------------|---------------|
| 175 / 225 ml | C0175 / C0225 |

Order No.:
Z326-1050



Angle rotor 10 x 50 ml conical
Angle: 38°

Acceleraton 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. ø: 29 mm
Temp. at max. speed: -1°C

Order No.:
Z326-50-B15HS
Z326-15-A7*
Z326-15-A5*
Z326-15-A20*
Z326-50-A15

| Adapter | ø (mm) | Length (min./max.) |
|-------------------|--------|--------------------|
| 1 x 15 ml RB | 17 | 97/123 |
| 1 x 7 ml | 13.5 | 95/115 |
| 1 x 5 ml | 13.5 | 70/90 |
| 1 x 1.5/2.0ml | 11 | 44 |
| 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.

