

HERMLE
Benchmark

Z32 HK

High Speed Centrifuge



- High speed, up to **38,007 x g**
- Compact, less than 16" wide
- Powerful refrigeration down to **-20° C**
- Advanced programming with auto rotor recognition
- Swing out rotor for 8 x 50ml or 12 x 15ml



Z32 HK Summary

Speed up to 20,000 rpm
G-Force up to 38,007 x g
Swing Out Capacity:
4 x 145ml
8 x 50 ml
12 x 15 ml
6 x microplates

Angle Rotor Capacity
44 x 1.5/2.0 ml
6 x 50 ml
30 x 15 ml

Z32 HK Features

Microprocessor Control

- Over-speed protection
- Automatic rotor identification
- Program Storage (99)
- Pre-Cool function
- Momentary spin button
- Imbalance detection
- Adjustable Accel/Decel
- Audible end of run alarm

Maintenance free induction drive
Motor driven safety lid-lock
Quiet operation, less than 62 DB
Splash proof display
Powerful Refrigeration
(Room temp to 4°C in less than 10 min.)

Z32 HK Specifications

Speed Range: 200 to 20,000 rpm
Max. RCF: 38,007 x g
Max Capacity: 4 x 100 ml
Timer: up to 99 hr, 59 min.
Dimensions: 15.7 x 27.5 x 14.1 in.
(W x D x H) 40 x 70 x 36 cm.
Weight: 156 lbs (71 kg)
Electrical: 120 or 230V, 50/60Hz
Power Draw: 1200W
Temp Range: -20° - 40° C



The Z32 HK utilizes much of the technology of our popular Z326 series, with a larger and more powerful motor drive, providing increased speed up to 20,000 rpm (38,007 x g).

With 16 available rotor options, the Z32 HK is not only ideal for high speed separations, it would also be classified as a “universal” centrifuge, offering economy angled and swinging bucket rotors for lower speed applications. Tubes from 0.2ml up to 85ml can be accepted, and rotors can quickly be exchanged without any required programming, utilizing the instant rotor identification system.

Despite an impressive capacity of up to 4 x 145ml (or 6 x 85ml), the Z32-HK is surprisingly compact. The refrigeration system is conveniently located behind the rotor chamber, resulting in narrow design of less than 16 inches wide.

Advanced microprocessor controls allow for instant rotor identification, which automatically converts the rotational speed to the relevant g-force (rcf), preventing the user from setting a speed above the capabilities of the installed rotor. In addition to retrieving saved programs, the easy to use front panel can adjust accel/decel rates, and change the end of run alarm tone.

Ordering Information:

Z032-K* Z32-HK Refrigerated Centrifuge (without rotor), 120V

*115V with US Plug. For 230V (EU Plug), please order -E.

High Speed Angle Rotors:



Item: Z326-0685-25

6 x 85ml Angle Rotor (25°)
"Super rotor" Fits 85ml, 50ml, 15ml, and 7ml

Max Speed: 13,000 rpm / 21,726 x g

Accel: 60 sec. / Decel: 50 sec.



Item: Z326-0485

4 x 85ml Angle Rotor (30°)

Max Speed: 15,000 rpm / 23,140 x g

Accel: 60 sec. / Decel: 51 sec.



Item: Z326-0650-HS

6 x 50ml Angle Rotor (26°)

Max Speed: 16,000 rpm / 24,039 x g

Accel: 45 sec. / Decel: 35 sec.



Item: Z326-1050

10 x 50ml Angle Rotor (38°)

Max Speed: 9,000 rpm / 11,770 x g

Accel: 66 sec. / Decel: 63 sec.

Inserts/Adapters

Z326-85-A15R: 15ml round

Z326-85-A15: 15ml conical

Z326-85-A50R: 50ml round

Z326-85-A50: 50ml conical

Inserts/Adapters

Z326-85-A15R: 15ml round

Z326-85-A15: 15ml conical

Z326-85-A50R: 50ml round

Z326-85-A50: 50ml conical

Inserts/Adapters

Z326-50-A30: 30ml round

Z326-50-A15R: 15ml (conical or round)

Inserts/Adapters

Z326-50-A30: 30ml round

Z326-50-A15: 15ml conical

Z326-50-B15: 15ml round

Z206-50-A57: 5-7ml (12-13mm)

Z206-50-A57C: Cushion for 5ml tube



Item: Z326-2010

20 x 10ml Angle Rotor (30°)

Max Speed: 14,000 rpm / 21,472 x g

Accel: 45 sec. / Decel: 40 sec.



Item: Z326-2420

24 x 1.5/2.0ml Angle Rotor with Quick-Seal lid (45°)

Max Speed: 17,000 rpm / 27,460 x g

Accel: 25 sec. / Decel: 25 sec.



Item: Z326-2420H

24 x 1.5/2.0ml Angle Rotor (45°)
Hermetically Sealed Lid

Max Speed: 20,000 rpm / 38,007 x g

Accel: 30 sec. / Decel: 30 sec.



Item: Z326-3020H

30 x 1.5/2.0ml Angle Rotor (45°)
Hermetically Sealed Lid

Max Speed: 17,000 rpm / 30,368 x g

Accel: 30 sec. / Decel: 30 sec.



Item: Z326-4420

44 x 1.5/2.0ml Angle Rotor with Quick-Seal lid (32°/55°)

Max Speed: 15,000 rpm / 21,379 x g

Accel: 22 sec. / Decel: 22 sec.



Item: Z326-3202

4 x 8 PCR Strips / 32 x 0.2ml (45°)
Hermetically Sealed

Max Speed: 15,000 rpm / 15,343 x g

Accel: 13 sec. / Decel: 10 sec.

Additional Rotors (Low Speed):



Item: Z326-02MP

Swing Out Rotor
2 x 3 microplates (90°)

Max Speed: 4,500 rpm / 2,716 x g

Accel: 20 sec. / Decel: 15 sec.

Inserts

BT1500-A1520: 20 x 1.5ml

BT1500-A05: 20 x 0.5ml

Z326-MPCA: 3 x chamber slide and dish carrier 2/pk

New optional accessory!!!

Z326-MPCA

3 x chamber slide and dish carrier



Fits all Hermle microplate carriers!!!



Item: Z326-0650-LS

6 x 50ml Angle Rotor (40°)

Max Speed: 6,000 rpm / 4,427 x g

Accel: 13 sec. / Decel: 17 sec.

Inserts/Adapters

Z206-50-A15: 15ml (conical or round)

Z206-50-A57: 5-7ml (12-13mm)

Z206-50-A57C: Cushion for 5ml tube



Item: Z326-1215

12 x 15ml Angle Rotor (32°)

Max Speed: 6,000 rpm / 4,427 x g

Accel: 13 sec. / Decel: 17 sec.

Inserts/Adapters

C3100-ADP: 5-7ml (12-13mm)



Item: Z326-3015

30 x 15ml Angle Rotor (35°)

Max Speed: 4,500 rpm / 2,830 x g*

Accel: 15 sec. / Decel: 13 sec.

Inserts/Adapters

C3100-ADP: 5-7ml (12-13mm)

Additional Rotors (Swing Out):



| |
|----------------------------------|
| Item: Z306-100 |
| 4 x 145ml Swing Out Rotor |
| Max Speed: 4,500 rpm / 3,350 x g |
| Accel: 15sec. / Decel: 15 sec. |

| Inserts: | Tube | qty/ insert | qty./ rotor |
|----------------|-----------------|----------------|----------------|
| Z306-100-A145 | 145ml | 1 | 4 |
| Z306-100-A100: | 100ml | 1 | 4 |
| Z306-100-A85: | 85ml | 1 | 4 |
| Z306-100-A50: | 50ml conical | 1 | 4 |
| Z306-100-A15: | 15ml conical | 2 | 8 |
| Z306-100-A10: | 10ml | 7 | 28 |
| Z306-100-A57: | 5/7ml | 7 | 28 |
| Z306-100-A20: | 1.5/2.0ml | 10 | 40 |

*Inserts sold in 2/pk.
Rotor accepts 4 inserts (2 x 2/pk.)



| |
|--|
| Item: Z326-100H |
| 4 x 100ml Swing Out Rotor with hermetically sealed buckets |
| Max Speed: 5,000 rpm / 3,885 x g |
| Accel: 13 sec. / Decel: 13 sec. |

| Inserts | Tube | qty/ insert | qty./ rotor |
|-----------------|-----------------|----------------|----------------|
| Z326-100H-A100: | 100ml | 1 | 4 |
| Z326-100H-A85: | 85ml | 1 | 4 |
| Z326-100H-A50: | 50ml conical | 1 | 4 |
| Z326-100H-A15: | 15ml conical | 2 | 8 |
| Z326-100H-A10: | 10ml | 4 | 16 |
| Z326-100H-A57: | 5/7ml | 4 | 16 |
| Z326-100H-A20: | 1.5/2.0ml | 5 | 20 |

*Inserts for Z326-100H Rotor, sold in 2/pk.
Rotor accepts 4 inserts (2 x 2/pk.)

| |
|--|
| Item: Z326-100H-AC |
| Same as above, without buckets |



| Buckets | Tube | qty/ Bucket | qty./ rotor |
|----------------|---|----------------|----------------|
| Z326-100H-B50: | 50ml | 2 | 8 |
| Z326-100H-B15: | 15ml | 3 | 12 |
| Z326-100H-BUK: | Hermetically Sealed Buckets (for use with Z326-100H-XXX inserts above) | | |

*Buckets for Z326-100H-AC rotor, sold in 2/pk.
Rotor accepts 4 buckets (2 x 2/pk.)

Also Available from Benchmark:

Z36 HK

Super Speed Refrigerated Centrifuge

- Convenient benchtop design
- Produces g-forces up to 65,395 x g
- 10 versatile rotor options

