

REFRIGERATED HIGH SPEED CENTRIFUGE **Z 32 HK**



Equipment

High Speed

HERMLE
LABORTECHNIK

Refrigerated High Speed Centrifuge Z 32 HK

With a wide range of accessories, the Z 32 HK high speed centrifuge is applicable in a wide variety of research settings.

In spite of the remarkably small footprint, the Z 32 HK features a powerful refrigeration system capable of maintaining cool sample temperatures even at maximum speed.



Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic rotor identification system with over speed protection immediately upon rotor installation
- Active imbalance-identification and -cut off rotor specific
- Imbalance tolerant drive
- CFC-free refrigeration system
- A large variety of rotors and accessories
- Manufactured according to international safety regulations, i.e. IEC 61010
- Audible signal at the end of each run with several melody options
- Quick and easy rotor exchange
- Noise level under 60 dBA at max. speed

Distinct Control Panel

- Simple one handed operation
- Easy to program with gloves on
- Splash proof digital display
- Permanent indication of Preset and Actual Values
- Selection of speed in both rpm and g-force, with increments of 10
- 10 acceleration and 10 deceleration rates, possibility of unbroken deceleration
- Preselection of the Temperature from - 20°C to 40°C with 1°C increments
- Indication of the sample temperature
- Pre-cooling program option
- Standstill cooling
- Pre-selection of running time from 10 s to 99h 59min or continuous
- Storage of up to 99 runs incl. rotor type
- Quick-key for short runs
- Diagnostic program



Technical data

max. Speed: 20000 rpm
max RCF: 38007 xg
max. Volume: 4 x 100 ml
Speed range:: 200 - 20000 rpm
Running Time: 99 h 59 min / 59 min 50 s
in 1 min / 10 s increments

Dimensions (w x h x d): 40 cm x 36 cm x 70 cm
Weight: 71 kg
Power input: 1200 W

Order numbers:
311.00 V07 - Z 32 HK, 230 V / 50 - 60 Hz
311.00 V08 - Z 32 HK, 120 V / 50 - 60 Hz

Accessories 232 HK

Rotor/Bucket

Adapters

Order No.:
220.78 V05



Angle rotor 6 x 85 ml
Angle: 25°

Acceleration in s: 60 / 500
Deceleration in s: 50 / 1260
max. speed: 13500 rpm
RCF-value: 20984 xg
max. radius: 10,3 cm
max. Ø: 38 mm
Temp. at max. Speed: 5°C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
707.001	1 x 15 ml	17	103/110
707.002	1 x 30 ml	25	90/103
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml-Falcon	29	118
707.014	1 x 15 ml-Falcon	17	120
without Adapter	1 x 85 ml	38	113
707.000	2 x 15 ml	17	95/100
707.015	1 x 16 ml	18	103/110

Order No.:
221.18 V02



Angle rotor 6 x 85 ml
Angle: 38°

Acceleration in s: 60 / 250
Deceleration in s: 50 / 1620
max. speed: 13000 rpm
RCF-value: 21726 xg
max. radius: 11,5 cm
max. Ø: 38 mm
Temp. at max. Speed: 4°C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
707.001	1 x 15 ml	17	103/110
707.002	1 x 30 ml	25	90/103
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml-Falcon	29	118
707.014	1 x 15 ml-Falcon	17	120
without Adapter	1 x 85 ml	38	113
707.000	2 x 15 ml	17	95/100
707.015	1 x 16 ml	18	103/110

Order No.:
221.20 V02



Angle rotor 4 x 85 ml
Angle: 30°

Acceleration in s: 60 / 540
Deceleration in s: 51 / 1380
max. speed: 15000 rpm
RCF-value: 23140 xg
max. radius: 9,2 cm
max. Ø: 38 mm
Temp. at max. Speed: 5°C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
707.001	1 x 15 ml	17	103/110
707.002	1 x 30 ml	25	90/103
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml-Falcon*	29	118
707.014	1 x 15 ml-Falcon*	17	120
without Adapter	1 x 85 ml	38	113
707.000	2 x 15 ml	17	95/100
707.015	1 x 16 ml	18	103/110

*only without rotor lid

Order No.:
221.22 V02



Angle rotor 6 x 50 ml
Angle: 26°

Acceleration in s: 45 / 420
Deceleration in s: 35 / 950
max. speed: 16000 rpm
RCF-value: 24039 xg
max. radius: 8,4 cm
max. Ø: 29 mm
Temp. at max. Speed: -1° C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
ohne Adapter	1 x 50 ml	29	95/115
708.019	1 x 30 ml	25	92/95
708.003	1 x 16 ml	18	100/105
708.004	1 x 15 ml	17	100/105
708.017	1 x 15 ml-Falcon*	17,5	116/125

*only without rotor lid

Order No.:
221.28 V02



Angle rotor 20 x 10 ml
Angle: 30°

Acceleration in s: 45 / 420
Deceleration in s: 40 / 1020
max. speed: 14000 rpm
RCF-value: 21472 xg
max. radius: 9,8 cm
max. Ø: 16 mm
Temp. at max. Speed: 1° C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
ohne Adapter	1 x 10 ml	16	80

Order No.:
221.17 V07



Angle rotor 30 x 1,5 / 2,0 ml
Angle: 45° | hermetically sealed

Acceleration in s: 30 / 250
Deceleration in s: 30 / 600
max. speed: 17000 rpm
RCF-value: 30368 xg
max. radius: 9,4 cm
max. Ø: 11 mm
Temp. at max. Speed: 8° C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
without Adapter	1 x 2,0 ml	11	40
without Adapter	1 x 1,5 ml	11	40
704.005	1 x 0,5 ml	8	45
704.004	1 x 0,4/0,2 ml PCR	6	45

Accessories **z 32 HK**

Rotor/Bucket

Order No.:
220.72 V06

Swing out rotor 4 Places
Angle: 0-90°

605.000
Bucket for Tube Rack

605.002
Hermetic lid for bucket



Adapters

Acceleration in s: 13 / 100
Deceleration in s: 13 / 240
max. speed: 5000 rpm
RCF-value: 3885 xg
max. radius: 13,9 cm
Temp. at max. Speed: -12°C

Volume	100 ml RB Glass	85 ml RB/OR	50 ml RB Glass	50 ml RB/OR	50 ml Falcon
Tubes Ø in mm	40	38	34	29	29
Length min./max. (mm)	90/108	90/108	92/118	90/133	116
Tubes per Rotor	4	4	4	4	4
Radiuscorrection (cm)	0,7	0,7	0,0	0,0	0,3
Order-No.: Tube Rack	705.000	705.012	705.001	705.010	705.006

Volume
Tubes Ø in mm

50 ml Rim	30 ml Universal	25 ml RB Glass	15 ml Falcon	15 ml Falcon	15 ml Rim	15 ml RB Glass	5/7 ml RB Glass	1,5 ml Reakt.	10 ml Sarstedt	5/7ml	10 ml Vakutainer	50ml Falcon	15ml Falcon
29	25	25	17	17	17	17	13	11	17	13	17	29	17
116	95/105	95/110	120	120	120	90/108	75/100	42	85/100	75/100	75/100	116	120
4	4	4	4	8	8	16	28	20	12	16	16	8	12
0,7	0,3	0,0	0,0	0,0	0,0	0,3	0,6	0,6	0,2	0,6	0,2	0,7	0,0
705.013	705.014	705.002	705.018	705.005* [†]	705.015* [†]	705.003	705.007	705.009	705.011	705.008	705.016	605.004	605.005

*† only without bucket lid

Length min./max. (mm)
Tubes per Rotor
Radiuscorrection (cm)
Order No.: Tube rack

Order No.:
221.16 V03



Swing out rotor 2 x 3 Microtitreplates
Angle: 0-90°

Acceleration in s: 20 / 160
Deceleration in s: 15 / 360
max. speed: 4500 rpm
RCF-value: 2716 xg
max. radius: 12,0 cm
max. Loading height: 63 mm
max. Loading weight: 310 g
Temp. at max. Speed: -10°C

Order-No.: Tube rack
706.000 48 x 1,5 ml (2,0 ml)
Tubes

Order No.:
221.19 V02



Angle rotor 30 x 15 ml
Angle: 35°

Acceleration in s: 15 / 120
Deceleration in s: 13 / 550
max. speed: 4500 rpm
RCF-value: 2830/2467 xg
max. radius: 12,5/10,9 cm
max. Ø: 17 mm
Temp. at max. Speed: -18°C

Order-No.:	Tube rack	Ø (mm)	Length (min./max.):
without	1 x 15 ml-Glas	17,0	95/115
701.011	1 x 7 ml	13,5	95/115
701.012	1 x 5 ml (RIA)	13,5	70/90
701.015	1 x 1,5 ml	11	42

Order No.:
221.54 V02



Angle rotor 12 x 15 ml
Angle: 32°

Acceleration in s: 13 / 121
Deceleration in s: 17 / 428
max. speed: 6000 rpm
RCF-value: 4427 xg
max. radius: 11,0 cm
max. Ø: 17
Temp. at max. Speed: -15°C

Volume	15 ml Falcon	15 ml	7 ml	5 ml	1,5 / 2,0 ml
Ø Tubes in mm	17	17	13	13	11
Length in mm	121	105-120	100	65-75	42
Adapter Order No.:	without	without	701.011	701.012	701.015

Order No.:
221.55 V02



Angle rotor 6 x 50 ml
Angle: 40°

Acceleration in s: 13 / 119
Deceleration in s: 17 / 522
max. speed: 6000 rpm
RCF-value: 4427 xg
max. radius: 11,0 cm
max. Ø: 29 mm
Temp. at max. Speed: -16°C

Volume	50 ml Falcon	50 ml RB/OR	30 ml	16 ml	15 ml Falcon	15 ml
Ø Tubes in mm	29	29	25	18	17	17
Length in mm	116	100-120	100	100-105	121	97-120
Adapter Order No.:	without	without	708.019	708.003	708.030	708.030

More from HERMLE:



Universal Centrifuge **2326**

max. Speed 18000 rpm
max. Volume 4 x 100 ml



Universal Centrifuge **2326K**

max. Speed 18000 rpm
max. Volume 4 x 100 ml



HERMLE

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