

Refrigerated High Speed Centrifuge

| Z 32 HK



HERMLE
LABORTECHNIK

Z 32 HK



Specifications

- 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
- A large variety of rotors and accessories
- Audible signal at the end of each run with several melody options
- Noise level under 65 dBA at max. speed
- Manufactured according to international safety regulations, i.e. IEC 61010
- Rotor exchange is easy to handle
- Stainless steel chamber

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 coolsample temperatures even at maximum speed.

Technical data

Max. speed:	20,000 rpm
Max. RCF:	38,007 xg
Max. volume:	4 x 200 ml
Speed range:	200 – 20,000 rpm
Temperature range:	-20°C to 40°C
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 1 min increments

Dimensions: 40 cm x 36 cm x 70 cm (w x h x d)

Weight: 71 kg

Order No.: 311.00 V07 - Z 32 HK
230 V / 50 - 60 Hz / 1200 W
311.00 V08 - Z 32 HK
120 V / 50-60 Hz / 1100 W



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 unbraked 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 99 h 59 min or continuous
- Storage of up to 99 runs incl. rotor type
- Quick-key for short runs
- Diagnostic program
- Timer: the centrifuge starts at the preselected time

Accessories Z 32 HK

Rotor/Bucket

Order No.:
220.78 V21



Angle rotor 6 x 85 ml
Angle: 25°

Adapter

Acceleration in s: 61/495
Deceleration in s: 46/1,407
Max. speed: 13,500 rpm
Max. RCF: 20,984 xg
Max. radius: 10.3 cm
Max. Ø: 38 mm
Temp. at max. speed: 4°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
without Adapter	1 x 85 ml	38	113
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml conical	29	116
707.016	1 x 50 ml Rim	29	118
707.002	1 x 30 ml	25	90/103
707.015	1 x 16 ml	18	103/110
707.000	2 x 15 ml	17	95/100
707.001	1 x 15 ml	17	103/110
707.014	1 x 15 ml conical	17	120
707.017	1 x 15 ml Rim	17	120

Order No.:
221.18 V21



Angle rotor 6 x 85 ml
Angle: 38°

Acceleration in s: 62/515
Deceleration in s: 51/1,869
Max. speed: 13,000 min⁻¹
Max. RCF: 21,726 xg
Max. radius: 11.5 cm
Max. Ø: 38 mm
Temp. at max. speed: 5°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
without Adapter	1 x 85 ml	38	113
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml conical	29	116
707.002	1 x 30 ml	25	90/103
707.015	1 x 16 ml	18	103/110
707.000	2 x 15 ml	17	95/100
707.001	1 x 15 ml	17	103/110
707.014	1 x 15 ml conical	17	120

Order No.:
221.20 V20



Angle rotor 4 x 85 ml
Angle: 30°

Acceleration in s: 58/511
Deceleration in s: 51/1,460
Max. speed: 15,000 rpm
Max. RCF: 23,140 xg
Max. radius: 9.2 cm
Max. Ø: 38 mm
Temp. at max. speed: 2°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
without Adapter	1 x 85 ml	38	113
707.003	1 x 50 ml	29	105
707.004	1 x 50 ml conical*	29	116
707.002	1 x 30 ml	25	90/103
707.015	1 x 16 ml	18	103/110
707.000	2 x 15 ml	17	95/100
707.001	1 x 15 ml	17	103/110
707.014	1 x 15 ml conical*	17	120

*only without rotor lid

Order No.:
221.52 V20



Angle rotor: 10x50 ml conical
Angle: 38°

Acceleration in s: 66/485
Deceleration in s: 63/1,859
Max. speed: 9,000 rpm
Max. RCF: 11,771 xg
Max. radius: 13.0 cm
Max. Ø: 29 mm
Temp. at max. speed: -6°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
708.050	1 x 15 ml round	17	97/123
701.011*	1 x 7 ml	13.5	95/115
701.012*	1 x 5 ml	13.5	70/90
707.015*	1 x 1.5/2.0 ml	11	42
708.051	1 x 15 ml conical	17	120

* only possible with adapter 708.050

Order No.:
221.22 V20



Angle rotor 6 x 50 ml
Angle: 26°

Acceleration in s: 50/412
Deceleration in s: 37/1,087
Max. speed: 16,000 rpm
Max. RCF: 24,039 xg
Max. radius: 8.4 cm
max. Ø: 29 mm
Temp. at max. speed: -3°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
without Adapter	1 x 50 ml round	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 conical*	17	120

* only without rotor lid

Order No.:
221.28 V21



Angle rotor 20 x 10 ml
Angle: 30°

Acceleration in s: 50/412
Deceleration in s: 37/1,186
Max. speed: 14,000 rpm
Max. RCF: 21,472 xg
Max. radius: 9.8 cm
max. Ø: 16 mm
Temp. at max. speed: -1°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]
without Adapter	1 x 10 ml	16	80

Order No.:
221.17 V21



Angle rotor 30 x 1.5 / 2.0 ml
Angle: 45°

Acceleration in s: 31/251
Deceleration in s: 32/642
Max. speed: 17,000 rpm
Max. RCF: 30,368 xg
Max. radius: 9.4 cm
Max. Ø: 11 mm
Temp. at max. speed: 7°C

Order No.:	Adapter	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.:
221.71 V20

Swing out rotor 4 place
Angle: 0-90°

605.100
Bucket for Adapter

605.102
Lid for Bucket I hermetically sealed



Adapter

Acceleration in s: 15/104
Deceleration in s: 12/373
Max. speed: 5,000 rpm
Max. RCF: 4,136 xg
Max. radius: 14.8 cm
Temp. at max. speed: -8°C

Volume	200 ml bottle	200 ml conical	100 ml RB Glass	85 ml RB/OR	50 ml RB Glass
Tubes ø in mm	56	56	40	38	34
Length min./max. (mm)	112	120	95/115	95/108	95/118
Tubes per rotor	4	4	4	4	4
Radius Correction (cm)	0.0	0.0	0.2	0.2	0.2
Order No. Adapter	ohne Adapter	705.100	705.101	705.102	705.103

Volume
Tubes ø in mm

Length min./max. (mm)
Tubes per rotor
Radius Correction (cm)
Order No. Adapter

50 ml RB/OR	50 ml conical	50 ml Rim	25/30 ml Universal	25/30 ml RB/OR	15 ml conical	15 ml conical	15 ml RB	5/7 ml RB	5 ml conical	1.5/2.0 ml micro	6-10 ml Vakut.®	1.8-7 ml Vakut.®	50 ml conical
29	29	29	25	25	17	17	17	13	17	11	16	13	29
95/103	116	116	95/105	90/110	120	120	60/107	65/100	60/70	40	100	75/100	116
4	4	4	4	4	16	12	28	32	20	32	28	32	8
0.2	0.1	0.2	0.2	0.2	0.1	0.0	0.2	0.2	0.1	0.1	0.2	0.2	0.0
705.104	705.105	705.106	705.107	705.108	705.109*	705.110	705.111	705.112	705.113	705.114	705.111	705.112	605.103

Order No.:
221.16 V20

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



Acceleration in s: 18/158
Deceleration in s: 18/644
Max. speed: 4,500 rpm
Max. RCF: 2,716 xg
Max. radius: 12.0 cm
Max. loading height: 63 mm
Max. loading weight: 310 g
Temp. at max. speed: -14°C

Order No.:
706.000
Tube rack
48 x 1.5 ml (2.0 ml)
Micro Tubes

Order No.:
221.19 V20

Angle rotor 30 x 15 ml glass
or 20 x 15 ml conical
Angle: 35°



Acceleration in s: 15/115
Deceleration in s: 15/777
Max. speed: 4,500 rpm
Max. RCF: 2,830/2,467 xg
Max. radius: 12.5/10.9 cm
Max. Ø: 17 mm
Temp. at max. speed: -17°C

Order No.:	Adapter	Ø [mm]	Length [min./max.]:
without Adapter	1 x 15 ml Glass	17.0	95/115
without Adapter	1 x 15 ml conical	17.0	120
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 1.5/2.0 ml	11	40
701.018	1 x 4.5-10 ml Sarstedt®	11-16	90/92

Order No.:
221.54 V20

Angle rotor 12 x 15 ml
Angle: 32°



Acceleration in s: 13/121
Deceleration in s: 17/428
Max. speed: 6,000 rpm
Max. RCF: 4,427 xg
Max. radius: 11.0 cm
Max. Ø: 17 mm
Temp. at max. speed: -20°C

Volume	15 ml conical	15 ml	4-7 ml Vakut.®	1.8-5 ml Vakut.®	1.5/2.0 ml	6-10 ml Sarstedt®/Vakut.®
Tubes ø in mm	17	17	13	13	11	17
Length min./max. (mm)	120	105-120	100	75	40	92/107
Order No. Adapter	without	without	701.011	701.012	701.015	701.018

Order No.:
221.55 V20

Angle rotor 6 x 50 ml
Angle: 40°



Acceleration in s: 13/119
Deceleration in s: 17/522
Max. speed: 6,000 rpm
Max. RCF: 4,427 xg
Max. radius: 11.0 cm
Max. Ø: 29 mm
Temp. at max. speed: -18°C

Volume	50 ml conical	50 ml RB/OR	30 ml	16 ml	15 ml conical	15 ml RB
Tubes ø in mm	29	29	25	18	17	17
Length min./max. (mm)	116	100/120	92/95	100/105	120	97/107
Order No. Adapter	without	without	708.019	708.003	708.030	708.030

More from HERMLE – a wide range of options



Universal Centrifuge Z 327 K

Max. speed 18,000 rpm
Max. volume 4 x 200 ml



Refrigerated High Speed Centrifuge Z 36 HK

Max. speed 30,000 rpm
Max. volume 6 x 250 ml

For more Information, please visit our website!

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