

UNIVERSAL CENTRIFUGES **2326** + **2326K**



Universal Centrifuges **Z 326 + Z 326K**

Both the table top centrifuge Z 326 and the **refrigerated table top centrifuge Z 326 K** offer a wide assortment of rotor options, making them ideal for a wide variety of research applications. Rotor exchange between swing out, micro, or high volume angled rotors is very simple and can take place in a matter of seconds. The **Z 326 K** includes the refrigeration system on the back side of the unit, optimized for the lab bench at only 40cm wide.



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 insertion
- 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
- Rotor exchange is easy to handle
- Noise level under 60 dBA at max. speed
- Optimized airflow system keeps the samples cool (Z 326)

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 99h 59min or continuous
- Storage of up to 99 runs incl. rotor type
- Quick-key for short runs
- Diagnostic program



Technical data Z 326

max. speed:	18000 rpm
max RCF:	23542 xg
max. volume:	4 x 100 ml
Speed range:	200 - 18000 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 48 cm
Weight:	43 kg
Power input:	455 W

Bestellnummern:

312.00 V01 - Z 326, 230 V / 50 - 60 Hz
312.00 V02 - Z 326, 120 V / 50 - 60 Hz

Technical data Z 326 K

max. speed:	18000 rpm
max RCF:	23542 xg
max. volume:	4 x 100 ml
Speed range:	200 - 18000 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:	60 kg
Power input:	660 W

Order numbers:

311.00 V05 - Z 326K, 230 V / 50 - 60 Hz
311.00 V06 - Z 326K, 120 V / 50 - 60 Hz

Accessories 2326 + 2326K

Rotor/Bucket

Order No.:
221.12 V03



Swing out rotor 4 Places
Angle: 0-90°

Volume
Tubes Ø in mm

Length min./max. (mm)
Tubes per rotor
Radius correction (cm)
Order No.: Tube rack

Order No.:
220.72 V06

Swing out rotor 4 Places
Angle: 0-90°
605.000
Bucket for Tube Rack
605.002



Volume
Tubes Ø in mm

Length min./max. (mm)
Tubes per rotor
Radius correction (cm)
Order No.: Tube rack

50 ml Rim 29	30 ml Universal 25	25 ml RB Glass 25	15 ml Falcon 17	15 ml Falcon 17	15 ml Rim 17	15 ml RB Glass 17	5/7 ml RB Glass 13	1,5 ml Reakt. 11	10 ml Sarstedt 17	5/7ml 13	10 ml Vakutainer 17	50ml Falcon 29	15ml Falcon 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* ¹	705.015* ²	705.003	705.007	705.009	705.011	705.008	705.016	605.004	605.005

*^{1,2} only without bucket lid

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: -6°C

Order No.:
706.000
Tube rack
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 / 160
Deceleration in s: 10 / 380
max. Speed: 4500 rpm
RCF-value: 2830/2467 xg
max. radius: 12,5/10,9 cm
max. Ø: 17 mm
Temp. at max. Speed: -9°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 / 88
Deceleration in s: 11 / 222
max. Speed: 6000 rpm
RCF-value: 4427 xg
max. radius: 11,0 cm
max. Ø: 17 mm
Temp. at max. Speed: -11°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

Accessories 2326 + 2326K

Rotor/Bucket

Order No.:
221.55 V02



Angle rotor 6 x 50 ml
Angle: 40°

Order No.:
220.78 V05



Angle rotor 6 x 85 ml
Angle: 25°

Order No.:
221.18 V02



Angle rotor 6 x 85 ml
Angle: 38°

Order No.:
221.20 V02



Angle rotor 4 x 85 ml
Angle: 30°

Order No.:
221.22 V02



Angle rotor 6 x 50 ml
Angle: 26°

Order No.:
221.28 V02



Angle rotor 20 x 10 ml
Angle: 30°

Order No.:
221.17 V07



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

Adapters

Acceleration in s: 13 / 89 Deceleration in s: 11 / 239 max. Speed: 6000 rpm RCF-value: 4427 xg max. radius: 11,0 cm max. Ø: 29 mm Temp. at max. Speed: -11°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

Acceleration in s: 40 / 400 Deceleration in s: 40 / 960 Acceleration in s: 60 / 500 Deceleration in s: 50 / 1260 max. Speed: 11000 rpm max. Speed: 13500 rpm RCF-value: 13932 xg RCF-value: 20984 xg max. radius: 10,3 cm max. Ø: 38 mm Temp. at max. Speed: 17°C	Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 40 / 360 Deceleration in s: 40 / 1050 max. Speed: 9000 rpm RCF-value: 10413 xg max. radius: 11,5 cm max. Ø: 38 mm Temp. at max. Speed: -5°C	Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 60 / 300 Deceleration in s: 40 / 820 max. Speed: 12000 rpm RCF-value: 14809 xg max. radius: 9,2 cm max. Ø: 38 mm Temp. at max. Speed: 5°C	Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 40 / 360 Deceleration in s: 30 / 570 max. Speed: 12000 rpm RCF-value: 13522 xg max. radius: 8,4 cm max. Ø: 29 mm Temp. at max. Speed: -5°C	Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 40 / 360 Deceleration in s: 30 / 570 max. Speed: 12000 rpm RCF-value: 15775 xg max. radius: 9,8 cm max. Ø: 16 mm Temp. at max. Speed: 2°C	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
	without Adapter	1 x 10 ml	16	80

Acceleration in s: 25 / 200 Deceleration in s: 25 / 360 Acceleration in s: 25 / 210 Deceleration in s: 30 / 360 max. Speed: 13000 rpm max. Speed: 14000 rpm RCF-value: 17785 xg RCF-value: 20595 xg max. radius: 9,4 cm max. Ø: 11 mm Temp. at max. Speed: 9°C	Order No.:	Tube rack	Ø (mm)	Lenght (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 **2326 + 2326K**

Rotor/Bucket

Order No.:
220.87 V16



Angle rotor 24 x 1,5 / 2,0 ml
Angle: 45°

Order No.:
220.87 V15



Angle rotor 24 x 1,5 / 2,0 ml
Angle: 45° | hermetically sealed

Order No.:
221.23 V02



Angle rotor 12 x 1,5 / 2,0 ml
Angle: 40°

Order No.:
220.88 V09



Angle rotor 44 x 1,5 / 2,0 ml
Angle: 32°/55°

Order No.:
220.92 V06



Angle rotor 64 x 0,4 ml
Angle: 40°

Order No.:
221.38 V01



Angle rotor 4 x 8-fach PCR Strips
Angle: 45°

Adapters

Acceleration in s: 23 / 210
Deceleration in s: 16 / 240
Acceleration in s: 25 / 230
Deceleration in s: 17 / 420
max. Speed: 14000 rpm
max. Speed: 15000 rpm
RCF-value: 18624 xg
RCF-value: 21379 xg
max. radius: 8,5 cm
max. Ø: 11 mm
Temp. at max. Speed: 6°C

Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 23 / 240
Deceleration in s: 16 / 240
Acceleration in s: 25 / 230
Deceleration in s: 17 / 420
max. Speed: 14000 rpm
max. Speed: 15000 rpm
RCF-value: 18624 xg
RCF-value: 21379 xg
max. radius: 8,5 cm
max. Ø: 11 mm
Temp. at max. Speed: 6°C

Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 25 / 240
Deceleration in s: 20 / 210
max. Speed: 18000 rpm
RCF-value: 23542 xg
max. radius: 6,5 cm
max. Ø: 11 mm
Temp. at max. Speed: -2°C

Order No.:	
704.004	0,4 ml tubes (Ø 6 x 50 mm) set of adapters (6 pcs.)
704.005	0,5 ml tubes (Ø 8 x 32 mm) set of adapters (6 pcs.)
704.011	1,5 ml adapter to the full performance usage (necessary from 16000 xg) (6 pcs.)

Acceleration in s: 22 / 196
Deceleration in s: 18 / 204
max. Speed: 13500 rpm
RCF-value: 17113 xg
max. radius: 8,4 cm
max. Ø: 11 mm
Temp. at max. Speed: 1°C

Order No.:	Tube rack	Ø (mm)	Lenght (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

Acceleration in s: 17 / 150
Deceleration in s: 12 / 170
max. Speed: 13500 rpm
RCF-value: 16298/14261 xg
max. radius: 8,0/7,0 cm
max. Ø: 8 mm
Temp. at max. Speed: 2°C

Acceleration in s: 16 / 130
Deceleration in s: 12 / 130
max. Speed: 15000 rpm
RCF-value: 15343 xg
max. radius: 6,1 cm
max. Ø: 6 mm
Temp. at max. Speed: -1°C

More from HERMLE:



Refrigerated High Speed Centrifuge **232HK**

max. Speed 20000 rpm
max. Volume 4 x 100 ml



Compact Centrifuge **2206A**

max. Speed 6000 rpm
max. Volume 6 x 50 ml



HERMLE

LABORTECHNIK

HERMLE Labortechnik GmbH

Siemensstraße 25
78564 Wehingen • Germany

Phone: + 49 7426/9622-50

Telefax: + 49 7426/9622-49

E-Mail: vertrieb@hermleLT.de

Web: www.hermle-labortechnik.de

