

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 1010
- 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 sec to 99h 59min or continuous
- Storage of up to ninety runs incl. rotor type
- Quick-key for short runs
- Diagnostic program



Technical data Z 326

max. speed:	18000 rpm
max RCF:	23545 xg
max. volume:	4 x 100 ml
Speed range:	200 - 18000 rpm
Running Time:	99 h 59 min / 59 min 50 sec in 1 min / 10 sec 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:	23545 xg
max. volume:	4 x 100 ml
Speed range:	200 - 18000 rpm
Running Time:	99 h 59 min / 59 min 50 sec in 1 min / 10 sec 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 V01 - Z 326K, 230 V / 50 - 60 Hz
311.00 V02 - 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

Adapters

Acceleration in sec.: 15 / 100
Deceleration in sec.: 15 / 150
max. Speed: 4500 rpm
RCF-value: 3350 xg
max. radius: 14,8 cm
Temp. at max. Speed: -5°C

Volume	100 ml RB Glass	85 ml RB/OR	50 ml RB Glass	50 ml RB Glass	50 ml Falcon
Tubes Ø in mm	44	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
Radius correction (cm)	0,7	0,7	0,3	0,3	0,3
Order-No.: Tube Rack	626.000	626.001	626.008	626.009	626.002

Volume
Tubes Ø in mm

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

Acceleration in sec.: 15 / 100
Deceleration in sec.: 15 / 150
max. Speed: 5000 rpm
RCF-value: 3885 xg
max. radius: 13,9 cm
Temp. at max. Speed: -1°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
Radius correction (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

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

Acceleration in sec.: 20 / 160
Deceleration in sec.: 15 / 360
max. Speed: 4500 rpm
RCF-value: 2739 xg
max. radius: 12,1 cm
max. Loading height: 58 mm
max. Loading weight: 310 g
Temp. at max. Speed: 0°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 sec.: 15 / 160
Deceleration in sec.: 10 / 380
max. Speed: 4500 rpm
RCF-value: 2829/2467 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.):
701.010	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
701.000	1 x 1,5 ml	11	42

Order No.:
220.96 V04



Angle rotor 12 x 15 ml
Angle: 28°

Acceleration in sec.: 15 / 100
Deceleration in sec.: 10 / 160
max. Speed: 6000 rpm
RCF-value: 4185 xg
max. radius: 10,4 cm
max. Ø: 17 mm
Temp. at max. Speed: -9°C

Volume	15 ml Falcon	15 ml	15 ml	7 ml	5 ml	1,5 ml
Tube Ø in mm	17	17	17	13	13	11
Length in mm	120	105-125	95-105	95-115	70-95	42
Adapter Order No.:	without	without	701.010	701.011	701.012	701.000

Accessories 2326 + 2326K

Rotor/Bucket

Order No.:
220.97 V04



Angle rotor 6 x 50 ml
Angle: 28°

Order No.:
220.78 V05



Angle rotor 6 x 80 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 V03



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

Adapters

Acceleration in sec.: 15 / 100	Volume	50 ml Falcon	15 ml Falcon	15 ml
Deceleration in sec.: 10 / 160				
max. Speed: 6000 rpm				
RCF-value: 3823 xg				
max. radius: 9,5 cm				
max. Ø: 30 mm				
Temp. at max. Speed: -8°C				
Tube Ø in mm		30	17	17
Length in mm		120	120-125	95-105
Adapter Order No.:		without	603.001	701.010

Acceleration in sec.: 40 / 400	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 40 / 960	707.001	1 x 15 ml	17	103/110
Acceleration in sec.: 60 / 500	707.002	1 x 30 ml	25	90/103
Deceleration in sec.: 50 / 1260	707.003	1 x 50 ml	29	105
max. Speed: 11000 rpm	707.004	1 x 50 ml-Falcon	29	118
max. Speed: 13500 rpm	707.014	1 x 15 ml-Falcon	17	120
RCF-value: 13933 xg	without Adapter	1 x 85 ml	38	113
RCF-value: 20986 xg	707.000	2 x 15 ml	17	95/100
max. radius: 10,3 cm	707.015	1 x 16 ml	18	103/110
max. Ø: 38 mm				
Temp. at max. Speed: 5°C				

Acceleration in sec.: 40 / 360	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 40 / 1050	707.001	1 x 15 ml	17	103/110
max. Speed: 9000 rpm	707.002	1 x 30 ml	25	90/103
RCF-value: 10414 xg	707.003	1 x 50 ml	29	105
max. radius: 11,5 cm	707.004	1 x 50 ml-Falcon	29	118
max. Ø: 38 mm	707.014	1 x 15 ml-Falcon	17	120
Temp. at max. Speed: 1°C	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 sec.: 60 / 300	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 40 / 820	707.001	1 x 15 ml	17	103/110
max. Speed: 12000 rpm	707.002	1 x 30 ml	25	90/103
RCF-value: 14811 xg	707.003	1 x 50 ml	29	105
max. radius: 9,2 cm	707.004	1 x 50 ml-Falcon*	29	118
max. Ø: 38 mm	707.014	1 x 15 ml-Falcon*	17	120
Temp. at max. Speed: 3°C	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 sec.: 40 / 360	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 30 / 570	ohne Adapter	1 x 50 ml	30	95/115
max. Speed: 12000 rpm	708.019	1 x 30 ml	30	92/95
RCF-value: 13523 xg	708.003	1 x 16 ml	18	100/105
max. radius: 8,4 cm	708.004	1 x 15 ml	17	100/105
max. Ø: 29 mm				
Temp. at max. Speed: -3°C	708.017	1 x 15 ml-Falcon*	17,5	116/125

*only without rotor lid

Acceleration in sec.: 40 / 360	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 30 / 570	without Adapter	1 x 16 ml	16	80
max. Speed: 12000 rpm				
RCF-value: 15938 xg				
max. radius: 9,9 cm				
max. Ø: 16 mm				
Temp. at max. Speed: 4°C				

Acceleration in sec.: 25 / 200	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
Deceleration in sec.: 25 / 360	without Adapter	1 x 2,0 ml	11	40
Acceleration in sec.: 25 / 210	without Adapter	1 x 1,5 ml	11	40
Deceleration in sec.: 30 / 360	704.005	1 x 0,5 ml	8	45
max. Speed: 13000 rpm	704.004	1 x 0,4/0,2 ml PCR	6	45
max. Speed: 14000 rpm				
RCF-value: 17760 xg				
RCF-value: 20598 xg				
max. radius: 9,4 cm				
max. Ø: 11 mm				
Temp. at max. Speed: 7°C				

Accessories 2326 + 2326K

Rotor/Bucket

Order No.:
220.87 V09



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

Order No.:
220.87 V10



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 V07



Angle rotor 44 x 1,5 / 2,0 ml
Angle: 40°

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 sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
23 / 210	16 / 240	without Adapter	1 x 2,0 ml	11	40
Acceleration in sec.: 25 / 230	Deceleration in sec.: 17 / 420	without Adapter	1 x 1,5 ml	11	40
max. Speed: 14000 rpm	max. Speed: 15000 rpm	704.005	1 x 0,5 ml	8	45
RCF-value: 18625 xg	RCF-value: 21381 xg	704.004	1 x 0,4/0,2 ml PCR	6	45
max. radius: 8,5 cm	max. radius: 8,5 cm				
max. Ø: 11 mm	Temp. at max. Speed: 3°C				

Acceleration in sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
23 / 240	16 / 240	without Adapter	1 x 2,0 ml	11	40
Acceleration in sec.: 25 / 230	Deceleration in sec.: 17 / 420	without Adapter	1 x 1,5 ml	11	40
max. Speed: 14000 rpm	max. Speed: 15000 rpm	704.005	1 x 0,5 ml	8	45
RCF-value: 18625 xg	RCF-value: 21381 xg	704.004	1 x 0,4/0,2 ml PCR	6	45
max. radius: 8,5 cm	max. radius: 8,5 cm				
max. Ø: 11 mm	Temp. at max. Speed: 3°C				

Acceleration in sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
25 / 240	20 / 210	704.004	0,4 ml tubes (Ø 6 x 50 mm)		
max. Speed: 18000 rpm	max. Speed: 18000 rpm		set of adapters (6 pcs.)		
RCF-value: 23545 xg	RCF-value: 23545 xg	704.005	0,5 ml tubes (Ø 8 x 32 mm)		
max. radius: 6,5 cm	max. radius: 6,5 cm		set of adapters (6 pcs.)		
max. Ø: 11 mm	Temp. at max. Speed: -5°C				

Acceleration in sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
17 / 150	12 / 140	without Adapter	1 x 2,0 ml	11	40
max. Speed: 13500 rpm	max. Speed: 13500 rpm	without Adapter	1 x 1,5 ml	11	40
RCF-value: 17115/14466 xg	RCF-value: 17115/14466 xg	704.005	1 x 0,5 ml	8	45
max. radius: 8,4/7,1 cm	max. radius: 8,4/7,1 cm	704.004	1 x 0,4/0,2 ml PCR	6	45
max. Ø: 11 mm	Temp. at max. Speed: 5°C				

Acceleration in sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
17 / 150	12 / 170				
max. Speed: 13500 rpm	max. Speed: 13500 rpm				
RCF-value: 16708/14059 xg	RCF-value: 16708/14059 xg				
max. radius: 8,2/6,9 cm	max. radius: 8,2/6,9 cm				
max. Ø: 8 mm	Temp. at max. Speed: 6°C				

Acceleration in sec.:	Deceleration in sec.:	Order No.:	Tube rack	Ø (mm)	Lenght (min./max.):
16 / 130	12 / 130				
max. Speed: 15000 rpm	max. Speed: 15000 rpm				
RCF-value: 15344 xg	RCF-value: 15344 xg				
max. radius: 6,1 cm	max. radius: 6,1 cm				
max. Ø: 6 mm	Temp. at max. Speed: 1°C				

More from HERMLE:

Refrigerated High Speed Centrifuge **2.32 HK**

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



Compact Centrifuge **2.206A**

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



HERMLE

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