

## Accessories

Z 400 ■ Z 400 K

Z 383 ■ Z 383 K

# Accessories

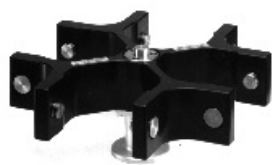


- Maximum volume 2.000 ml (4 x 500 ml)
- Spin many tubes at once (e.g. 48 x 15 ml)
- Inserts and rotors for microtiter plates
- High speed angle rotors

- Wide selection of tube types (e.g. Vacutainer) and tube sizes (1,5 ml up to 500 ml)
- Angle rotors for "Falcon"-type-tubes
- Hermetically sealable rotors for centrifuging hazardous substances



# Rotor/Bucket



## Rectangular bucket: 610.000



Acceleration in sec.:	Z 383	Z 400
Deceleration (min./max.):	37	45/103
Speed max. (rpm):	50/169	51/97
RCF-value (x g):	5.000	3.500
Centrifugal radius (cm):	4.640	2.273
Temperature at n-max.:	16,6	16,6
	2°C	-8°C

## Round bucket: 611.000



Acceleration in sec.:	Z 383	Z 400
Deceleration (min./max.):	37	45/103
Speed max. (rpm):	50/169	51/97
RCF-value (x g):	5.000	3.500
Centrifugal radius (cm):	4.696	2.301
Temperature at n-max.:	16,8	16,8
	2°C	-8°C

Swing out rotor 4 x 250 ml  
Order No.: 220.86 V01

Volume	5 ml	7 ml	15 ml	15 ml	25 ml	50 ml	50 ml	50 ml	80 ml	85 ml	100 ml
Ø in mm	13	13	17	17	24	28,5	29	34	44	38	40
Length min./max. (mm)	55/75	90/100	85/120	120	90/115	90/120	116	90/115	90/120	90/125	90/120
Tubes per rotor	80	80	48	24 <sup>1</sup>	20	8	8 <sup>2</sup>	8	4	4	4
Radius correction (cm)	0,6	0,6	0,7	0,3	0,6	0,4	0,4	0,6	0,6	0,4	0,6
Order No.	710.014	710.013	710.010	710.011	710.009	710.006	710.007	710.005	710.004	710.003	710.002
Length min./max. (mm)	55/75	100	105/120	120	85/120	95/130	116	85/120	85/110	80/120	114
Tubes per rotor	48	48	28	16	8	4	4	4	4	4	4
Radius correction (cm)	0,5	0,5	0,5	---	0,5	0,2	0,3	0,7	0,7	0,2	0,2
Order No.	711.011	711.010	711.008	711.009	711.007	711.005	711.006	711.004	711.003	713.011	713.010

	Vacutainer						Sarstedt				
Volume	190 ml <sup>3</sup>	250 ml	4,5 / 5 ml	5 ml	8 ml	12 ml	2 - 4 ml	3,2 - 6 ml	4,5 - 5 ml	9 - 12 ml	25 ml
Ø in mm	61	61	13	12,5	16	16	11,5	15,3	13	16,5	25
Length min./max. (mm)	138	100/120	85/118	61/115	75/115	85/120	62/120	50/120	85/118	83/120	80/120
Tubes per rotor	4	4	56	56	48	48	60	48	60	32	8
Radius correction (cm)	0,4	0,3	0,4	0,4	0,4	0,7	0,6	0,4	0,4	0,4	0,4
Order No.	710.001	710.000	710.017	710.016	710.015	710.010	710.022	710.020	710.021	710.019	710.018
Length min./max. (mm)	138	122	85/125	60/125	75/125	105/120	65/120	50/120	85/120	85/120	80/120
Tubes per rotor	4	4	32	32	28	28	48	28	48	20	4
Radius correction (cm)	0,2	0,1	0,2	0,2	0,2	0,5	0,5	0,7	0,5	0,2	0,2
Order No.	713.009	w.out rack	713.003	713.002	713.001	711.008	713.004	713.005	713.006	713.007	713.008

<sup>1</sup> without lid: No. 710.012  
Tubes per rotor: 36

<sup>2</sup> without lid: No. 710.008  
Tubes per rotor: 12

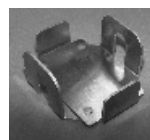
<sup>3</sup> only applicable in bucket without lid



Swing out rotor 4 places  
Order No.: 221.08 V01

Acceleration in sec.:	Z 383	Z 400
Deceleration (min./max.):	50	67/120
Speed max. (rpm):	40/240	58/110
RCF-value (x g):	4.500	3.500
Centrifugal radius (cm):	4.211	2.547
Temperature at n-max.:	18,6	18,6
	10°C	2°C

## Carrier: 625.020



Acceleration in sec.:	Z 383	Z 400
Deceleration (min./max.):	50	67/120
Speed max. (rpm):	40/240	58/110
RCF-value (x g):	4.500	3.500
Centrifugal radius (cm):	3.373	2.041
Temperature at n-max.:	14,3	14,3
	-10°C	-8°C

	Vacutainer						Sarstedt					
Volume	500 ml	250 ml	50 ml	50 ml <sup>1</sup>	15 ml	1,5/2,0 ml	5 ml	8 ml	2 - 4 ml	3,2 - 6 ml	9 - 12 ml	25 ml
Tubes Ø in mm	80	62	28,5	28,5	16	11	13	16,5	12,5	16	17	26
Length min./max. [mm]	126	110/130	120	120	120	42	65/82	95/105	70/128	60/122	90/122	95/108
Tubes per rotor [pcs.]	4	4	20	28	48	100	88	76	76	52	56	28
Radius correction in cm	0,9	0,8	0,2	0,5	0,2	5,8	4,0	1,7	0,3	0,5	0,3	0,3
Order No.: Tube rack	625.004	625.003	625.002	625.001	625.000	625.013	625.009	625.010	625.008	625.007	625.006	625.005

<sup>1</sup> Bucket not sealable

## Rotor/Bucket

## Adapter



Swing out rotor 20 x 15 ml-Falcon  
Order No.: 221.02 V01

	Z 383	Z 400
Acceleration in sec.:	30	30/60
Deceleration (min./max.):	10/47	40/60
Speed max. (rpm):	5.000	4.000
RCF-value (x g):	5.199	3.327
Centrifugal radius (cm):	18,6	18,6
Temperature at n-max.:	-8°C	-4°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
701.010	Tube rack:	17,5	95/115
701.011	Reduction insert	13,5	95/115
701.012	Reduction insert	13,5	70/90



Swing out rotor 12 x 50 ml-Falcon  
Order No.: 221.03 V01

	Z 383	Z 400
Acceleration in sec.:	15	30/60
Deceleration (min./max.):	8/37	30/60
Speed max. (rpm):	4.250	4.000
RCF-value (x g):	3.574	3.166
Centrifugal radius (cm):	17,7	17,7
Temperature at n-max.:	-8°C	-4°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
603.000	Inserts, 50 ml	30	105/120
603.001	Inserts, 15 ml	17,5	116/125



Drum rotor 8 places  
Order No.: 220.34 V04

	Z 383
Acceleration in sec.:	37/320
Deceleration (min./max.):	37/210
Speed max. (rpm):	9.200
RCF-value (x g):	10.409
Centrifugal radius (cm):	11,0
Temperature at n-max.:	-2°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
715.000	2 x 15 ml	17	100
715.001	1 x 50 ml	28,5	103
715.002	11 x 1,5 ml	11	42
715.003	15 x 1,5 ml horizontal	11	42
715.004	20 x 0,75 ml	8	32
715.005	6 x 5 ml	12	75
715.006	2 x 10 ml Monovette	17	108
715.007	1 x 50 ml-Falcon	29	116
715.008	1 x 25 ml	17	108
715.009	4 x 7,5 ml	13	100
715.010	1 x 94 ml	38	105
715.011	1 x 15 ml-Falcon	17	125



6 x 85 ml  
Order No.: 220.78 V02

hermetically sealable  
Order No.: 220.78 V03

	Z 383
Acceleration in sec.:	83
Deceleration (min./max.):	83/547
Speed max. (rpm):	15.000
RCF-value (x g):	25.910
Centrifugal radius (cm):	10,3
Temperature at n-max.:	10°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
707.000	2 x 15 ml	17	100
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
707.003 +			
708.001	1 x 30 ml-glass	25	105
707.003 +			
708.000	1 x 15 ml-glass	17	100/105
without adapter	1 x 85 ml	38	113



8 x 50 ml  
Order No.: 220.80 V02

hermetically sealable  
Order No.: 220.80 V03

	Z 383
Acceleration in sec.:	66
Deceleration (min./max.):	50/387
Speed max. (rpm):	15.000
RCF-value (x g):	24.149
Centrifugal radius (cm):	9,6
Temperature at n-max.:	1°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
708.000	1 x 15 ml-glass	17	100
708.004	1 x 15 ml	17	100/105
708.003	1 x 16 ml	18	100/105
708.002	1 x 30 ml	25	92/95
708.001	1 x 30 ml-glass	25	105
without adapter	1 x 50 ml	29	105



24 x 1,5 ml / 2,0 ml  
Order No.: 220.87 V03

hermetically sealable  
Order No.: 220.87 V04

	Z 383	Z 400
Acceleration in sec.:	30	23/77
Deceleration (min./max.):	39/320	32/124
Speed max. (rpm):	17.000	13.500
RCF-value (x g):	27.464	17.320
Centrifugal radius (cm):	8,5	8,5
Temperature at n-max.:	2°C	0°C

Order No.:	Tube rack:
704.004	0,4 ml tubes (Ø 6 x 50 mm) set of adapters (12 pcs.)
704.005	0,5 ml tubes (Ø 8 x 32 mm) set of adapters (12 pcs.)

## Rotor/Bucket

## Adapter



6 x 50 ml  
Order No.: 220.97 V02

	Z 383	Z 400
Acceleration in sec.:	18	23/49
Deceleration (min./max.):	21/160	26/60
Speed max. (rpm):	6.000	6.000
RCF-value (x g):	3.904	3.863
Centrifugal radius (cm):	9,7	9,7
Temperature at n-max.:	-10°C	-10°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
without adapter	1 x 50 ml-Falcon	30	105/120
without adapter	1 x 50 ml	30	95/115
708.002	1 x 30 ml	30	92/95
708.003	1 x 16 ml	18	100/105
708.004	1 x 15 ml	17	100/105
603.001	1 x 15 ml-Falcon	17,5	116/125



12 x 12 ml  
Order No.: 220.85 V01

	Z 383
Acceleration in sec.:	54
Deceleration (min./max.):	41/330
Speed max. (rpm):	15.000
RCF-value (x g):	24.903
Centrifugal radius (cm):	9,9
Temperature at n-max.:	4°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
701.003	1 x 10 ml	16	80
without adapter	1 x 12 ml	16	98/109

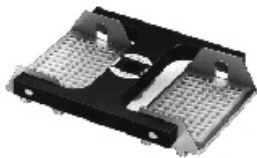
hermetically sealable  
Order No.: 220.85 V02



12 x 15 ml  
Order No.: 220.96 V02

	Z 383	Z 400
Acceleration in sec.:	22	27/63
Deceleration (min./max.):	18/125	40/115
Speed max. (rpm):	6.000	6.000
RCF-value (x g):	4.186	4.186
Centrifugal radius (cm):	10,4	10,4
Temperature at n-max.:	-10°C	-10°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
701.010	1 x 15 ml-glass	17,5	95/115
701.011	1 x 7 ml	13,5	95/115
701.012	1 x 5 ml (RIA)	13,5	70/90



Swing out rotor 2 x Microtiter  
Order No.: 221.16 V01

	Z 383	Z 400
Acceleration in sec.:	20	30/60
Deceleration (min./max.):	15/89	30/77
Speed max. (rpm):	4.500	4.500
RCF-value (x g):	2.762	2.762
Centrifugal radius (cm):	12,2	12,2
Temperature at n-max.:	-7°C	-7°C
Loading height max.:	58 mm	58 mm
Loading weight max.:	310 g	310 g

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



Swing out rotor 2 x Microtiter  
Order No.: 220.50 V06

	Z 383	Z 400
Acceleration in sec.:	20	30/60
Deceleration (min./max.):	15/89	30/77
Speed max. (rpm):	3.500	3.500
RCF-value (x g):	1.424	1.424
Centrifugal radius (cm):	10,4	10,4
Temperature at n-max.:	-7°C	-10°C

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



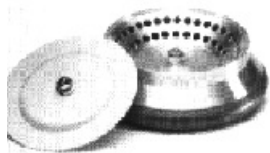
44 x 1,5 ml / 2,0 ml  
Order No.: 220.88 V01

	Z 383	Z 400
Acceleration in sec.:	17	28/37
Deceleration (min./max.):	22/153	33/57
Speed max. (rpm):	13.500	13.500
RCF-value (x g):	14.467/17.523	14.467/17.523
Centrifugal radius (cm):	7,1/8,6	7,1/8,6
Temperature at n-max.:	-9°C	-4°C

Order No.:	Tube rack:
704.004	0,4 ml tubes (Ø 6 x 50 mm) set of adapters (12 pcs.)
704.005	0,5 ml tubes (Ø 8 x 32 mm) set of adapters (12 pcs.)

## Rotor/Bucket

## Adapter



64 x 0,4 ml  
Order No.: 220.92 V01

	Z 383	Z 400
Acceleration in sec.:	13	25/37
Deceleration (min./max.):	16/154	30/57
Speed max. (rpm):	13.500	13.500
RCF-value (x g):	14.059/ 16.708	14.059/ 16.708
Centrifugal radius (cm):	6,9/8,2	6,9/8,2
Temperature at n-max.:	-8°C	-4°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
704.004	0,4 ml tubes (Ø 6 x 50 mm)		
	set of adapters (12 pcs.)		



24 x 15 ml  
Order No.: 220.81 V06

	Z 383	Z 400
Acceleration in sec.:	22	25/37
Deceleration (min./max.):	16/105	30/57
Speed max. (rpm):	3.500	3.500
RCF-value (x g):	1.890/ 1.972	1.890/ 1.972
Centrifugal radius (cm):	13,8/ 14,4	13,8/ 14,4
Temperature at n-max.:	-10°C	-10°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
701.010	1 x 15 ml-glass	17,5	95/115
701.011	1 x 7 ml	13,5	95/115
701.012	1 x 5 ml (RIA)	13,5	70/90



Swing out rotor 4 x 15 ml  
Order No.: 220.73 V02

	Z 383
Acceleration in sec.:	36
Deceleration (min./max.):	36/226
Speed max. (rpm):	8.000
RCF-value (x g):	9.588
Centrifugal radius (cm):	13,4
Temperature at n-max.:	3°C

Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
701.010	1 x 15 ml-glass	17,5	95/115
701.011	1 x 7 ml	13,5	95/115
701.012	1 x 5 ml (RIA)	13,5	70/90
without adapter	1 x 15 ml	17	100