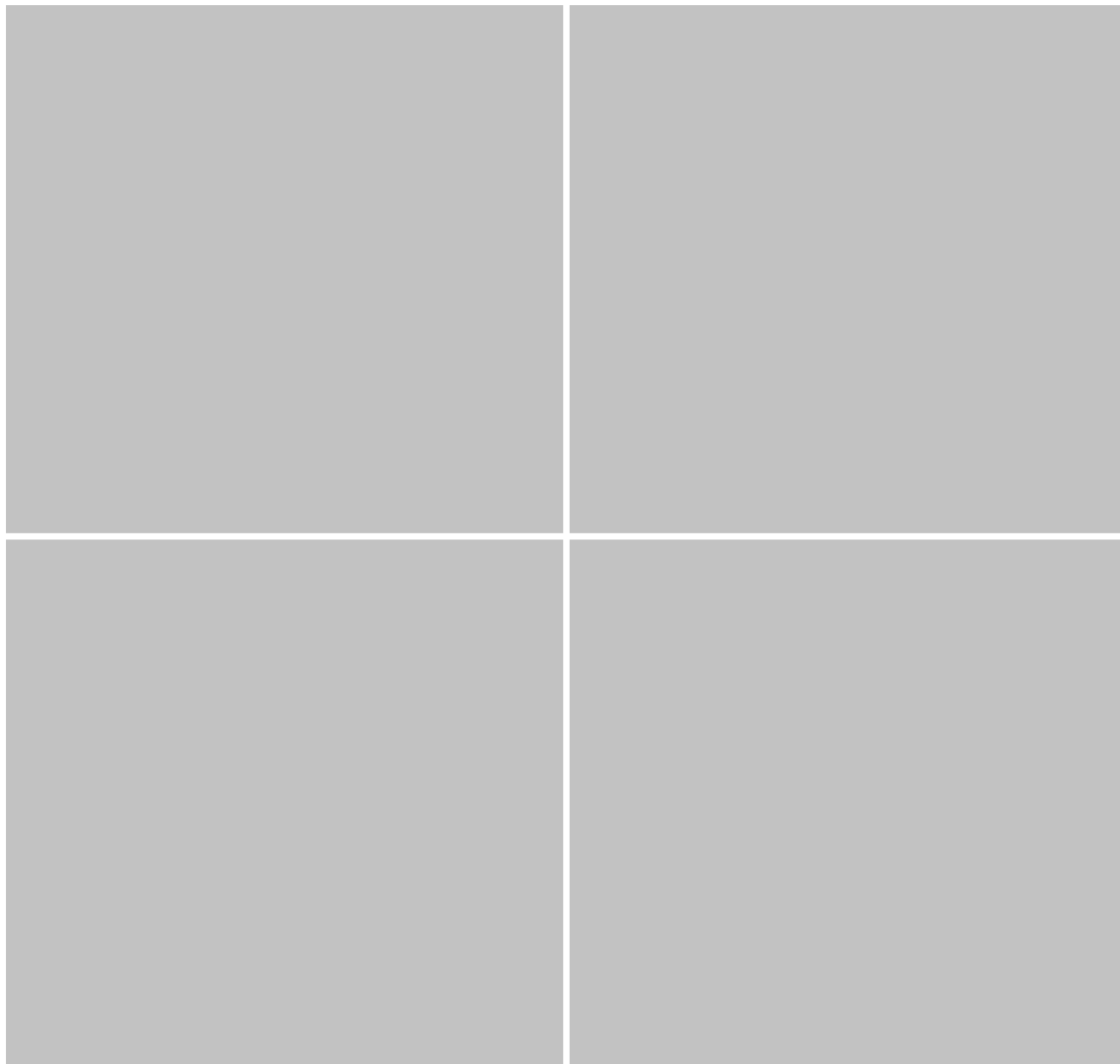
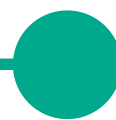




Accessories

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Z 400 ■ Z 400 K

Z 383 ■ Z 383 K

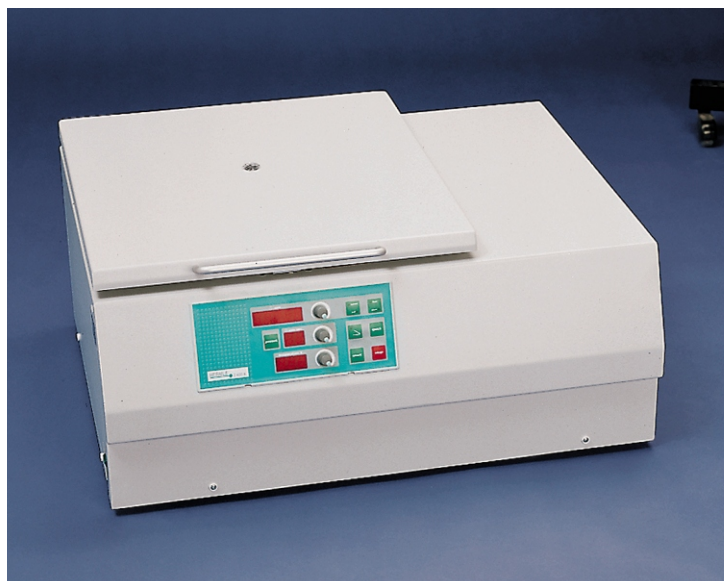
Accessories



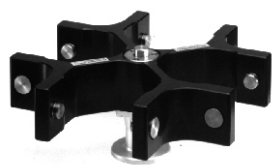
- Maximum volume 1.000 ml (4 x 250 ml)
- Spin many tubes at once (e.g. 48 x 15 ml)
- Inserts and rotors for microtiter plates
- High speed angle rotors



- Wide selection of tube types (e.g. Vacutainer) and tube sizes (1,5 ml up to 250 ml)
- Angle rotors for "Falcon"-type-tubes
- Hermetically sealable rotors for centrifuging hazardous substances



Rotor/Bucket



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

Rectangular bucket: 610.000



Acceleration in sec.: 37
Deceleration (min./max.): 50/169
Speed max. (rpm): 5.000
RCF-value (x g): 4.640
Centrifugal radius (cm): 16,6
Temperature at n-max.: 2°C

Z 383
37
50/169
5.000
4.640
16,6
2°C

Z 400
45/103
51/97
3.500
2.273
16,6
-8°C

Round bucket: 611.000



Acceleration in sec.: 37
Deceleration (min./max.): 50/169
Speed max. (rpm): 5.000
RCF-value (x g): 4.696
Centrifugal radius (cm): 16,8
Temperature at n-max.: 2°C

Z 383
37
50/169
5.000
4.696
16,8
2°C

Z 400
45/103
51/97
3.500
2.301
16,8
-8°C

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 ¹	20	8	8 ²	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 ³	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

¹ without lid: No. 710.012
Tubes per rotor: 36

² without lid: No. 710.008
Tubes per rotor: 12

³ only applicable in bucket without lid



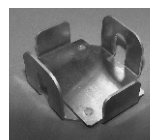
Swing out rotor 4 places
Order No.: 221.08 V01

Acceleration in sec.: 50
Deceleration (min./max.): 40/240
Speed max. (rpm): 4.500
RCF-value (x g): 4.211
Centrifugal radius (cm): 18,6
Temperature at n-max.: 10°C

Z 383
50
40/240
4.500
4.211
18,6
10°C

Z 400
67/120
58/110
3.500
2.547
18,6
2°C

Carrier: 625.020



Acceleration in sec.: 50
Deceleration (min./max.): 40/240
Speed max. (rpm): 4.500
RZB-Wert (x g): 3.373
Centrifugal radius (cm): 14,3
Temperature at n-max.: -10°C

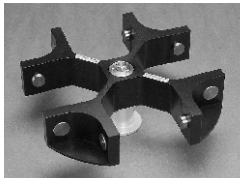
Z 383
50
40/240
4.500
3.373
14,3
-10°C

Z 400
67/120
58/110
3.500
2.041
14,3
-8°C

	Vacutainer					Sarstedt					
Volume	500 ml	15 ml	50 ml	50 ml ¹	250 ml	5 ml	8 ml	2 - 4 ml	3,2 - 6 ml	9 - 12 ml	25 ml
Ø in mm	80	17	30	30	62	13	16,5	12,5	16	17	26
Length min./max. (mm)	126	120	120	120	110/130	65/82	95/105	70/128	60/122	90/122	95/108
Tubes per rotor	4	48	20	28	4	88	76	76	52	56	28
Radius correction (cm)		0,2	0,2	0,5	0,8	4,0	1,7	0,3	0,5	0,3	0,3
Order No.	625.004	625.000	625.002	625.001	625.003	625.009	625.010	625.008	625.007	625.006	625.005

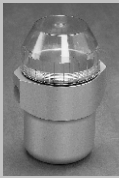
¹ Bucket not sealable

Rotor/Bucket



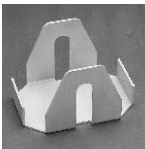
Swing out rotor 4 x 250 ml
Order No.: 220.93 V01

Round bucket: 612.015



	Z 383	Z 400
Acceleration in sec.:	31	45/105
Deceleration (min./max.):	47/190	50/100
Speed max. (rpm):	4.500	3.500
RCF-value (x g):	4.007	2.424
Centrifugal radius (cm):	17,7	17,7
Temperature at n-max.:	-10°C	-8°C

Carrier: 612.020



	Z 383	Z 400
Acceleration in sec.:	31	45/105
Deceleration (min./max.):	47/190	50/100
Speed max. (rpm):	4.500	3.500
RCF-value (x g):	3.599	2.177
Centrifugal radius (cm):	15,9	15,9
Temperature at n-max.:	-10°C	-8°C

Volume	0,5 ml	1,5 ml	7 ml	7 ml	7 ml	12 ml	15 ml	15 ml	30 ml	50 ml	50 ml
Ø in mm	9	11	13	16	16	16	17	17	26	30	30
Length min./max. (mm)	-/-	50	70/120	70/120	100/120	100/122	126	100/126	100/123	123	100/123
Tubes per rotor	120	40	56	36	56	36	24	36	16	8	12
Radius correction (cm)	0,5	0,5	0,4	0,2	0,3	0,2	-/-	0,2	0,2	0,2	0,2
Order No.	712.045	712.046	712.044	712.042	712.043	712.041	712.040	712.039	712.038	712.037	712.036

	Vacutainer				Sarstedt			
Volume	85 ml	250 ml	5 ml	8 ml	2 - 4 ml	3,2 - 6 ml	9 - 12 ml	25 ml
Ø in mm	39	62	12,5	16	11,5	15,3	16,5	25
Length min./max. (mm)	100/136	135	65/130	80/130	70/126	58/129	93/130	90/130
Tubes per rotor	4	4	36	28	52	28	28	12
Radius correction (cm)	0,2	0,4	0,2	0,2	0,5	0,4	0,2	0,2
Order No.	712.035	712.034	712.048	712.047	712.049	712.050	712.051	712.052



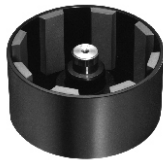
Swing out rotor 20 x 15 ml-Falcon
Order No.: 221.02 V01

	Z 383	Z 400	Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
Acceleration in sec.:	30	30/60	701.010	Reduction insert	17,5	95/115
Deceleration (min./max.):	10/47	40/60	701.011	Reduction insert	13,5	95/115
Speed max. (rpm):	5.000	4.000	701.012	Reduction insert	13,5	70/90
RCF-value (x g):	5.199	3.327				
Centrifugal radius (cm):	18,6	18,6				
Temperature at n-max.:	-8°C	-4°C				



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

	Z 383	Z 400	Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
Acceleration in sec.:	15	3065	603.000	Inserts, 50 ml	30	105/120
Deceleration (min./max.):	8/37	30/60	603.001	Inserts, 15 ml	17,5	116/125
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				



Drum rotor 8 places
Order No.: 220.34 V04

	Z 383	Order No.:	Tube rack:	Ø (mm):	Length (min./max.):
Acceleration in sec.:	37/320	715.000	2 x 15 ml	17	100
Deceleration (min./max.):	37/210	715.001	1 x 50 ml	28,5	103
Speed max. (rpm):	9.200	715.002	11 x 1,5 ml	11	42
RCF-value (x g):	10.409	715.003	15 x 1,5 ml horizontal	11	42
Centrifugal radius (cm):	11,0	715.004	20 x 0,75 ml	8	32
Temperature at n-max.:	-2°C	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

Rotor/Bucket

Rectangular bucket: 610.015



	Z 383	Z 400
Acceleration in sec.:	83	45/120
Deceleration (min./max.):	83/547	52/100
Speed max. (rpm):	3.500	3.500
RCF-value (x g):	2.844	2.844
Centrifugal radius (cm):	15,9	15,9
Temperature at n-max.:	-10°C	-8°C

Round bucket: 611.011



	Z 383	Z 400
Acceleration in sec.:	83	45/120
Deceleration (min./max.):	83/547	52/100
Speed max. (rpm):	4.000	4.000
RCF-value (x g):	2.952	2.952
Centrifugal radius (cm):	16,5	16,5
Temperature at n-max.:	-10°C	-8°C

Swing out rotor 4 x 190 ml
Order No.: 220.27 V02

Volume	1,5 ml	5 ml	6 ml	Hemolyse	15 ml	15 ml	25 ml	50 ml	50 ml	50 ml	80 ml
Ø in mm	11	13	13	14	17	17	25	30	34	30	44
Length min./max. (mm)		52/109	86/108		89/108	120	89/119	116	90/115		90/120
Tubes per rotor		80	80		48	16	20	8	8		4
Radius correction (cm)		1,0	1,0		1,1	0,7	1,0	0,8	0,8		1,0
Order No.		710.014	710.013		710.010	710.028	710.009	710.029	710.005		710.004
Length min./max. (mm)	40	55/120	89/120	70/115	83/115	120	83/195	116	83/115	96/120	
Tubes per rotor	32	48	48	36	28	16	8	4	4	4	
Radius correction (cm)	0,6	0,5	0,5	0,4	0,5	-/-	0,5	0,3	0,7	0,4	
Order No.	711.022	711.011	711.010	711.021	711.008	711.009	711.007	711.006	711.004	711.005	

	Vacutainer						Sarstedt				
Volume	85 ml	100 ml	100 ml	4,5 ml	5 ml	8 ml	12 ml	2 - 4 ml	3,2 - 6 ml	9 - 12 ml	25 ml
Ø in mm	38	40	46	13	12,5	16	16	11,5	15,3	16,5	25
Length min./max. (mm)	90/125	90/120			101	98	98	105	100	100	118
Tubes per rotor	4	4			56	48	48	60	48	32	8
Radius correction (cm)	0,8	1,0			0,8	0,8	1,1	1,0	0,8	0,8	0,8
Order No.	710.003	710.002			710.016	710.015	710.010	710.022	710.020	710.019	710.018
Length min./max. (mm)			83/115	110	115	115	100	110	108	117	130
Tubes per rotor			4	48	32	28	28	48	28	20	4
Radius correction (cm)			0,2	0,5	0,2	0,2	0,5	0,5	0,7	0,2	0,2
Order No.			713.003	713.006	713.002	713.001	711.008	713.004	713.005	713.007	713.008



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

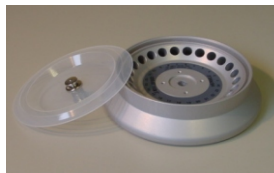
hermetically sealable
Order No.: 220.80 V03

	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

Rotor/Bucket

Adapter



	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.:	
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.)

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.:	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

6 x 50 ml

Order No.: 220.97 V02



	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

12 x 12 ml

Order No.: 220.85 V01

hermetically sealable

Order No.: 220.85 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

12 x 15 ml

Order No.: 220.96 V02



	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

Swing out rotor 2 x Microtiter

Order No.: 220.50 V06

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Rotor/Bucket

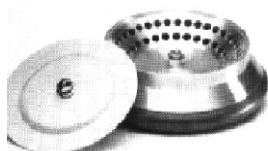
Adapter



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.:	
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.)



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

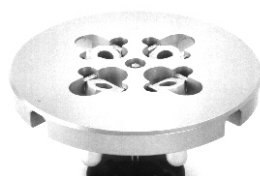
Order No.:	
704.004	0,4 ml tubes (Ø 6 x 50 mm) set of adapters (12 pcs.)



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