FRONTIER™ 5000

Rotor Guide

Offering Flexibility to Maximize Sample Preparation

- Choose from a range of rotors to be used with Frontier centrifuges to match capacities and flexibility required for your basic to high-performance sample preparation needs.
- Designed with usability in mind, the Frontier rotors can be effortlessly installed or removed in a few quick and simple steps, and users have easy access to the samples.
- The sturdy rotors are constructed of high-quality materials and built to last through demanding workflows from autoclave sterilization to sub-zero temperature.
- OHAUS Frontier centrifuges are reliable, versatile and ideal for numerous laboratory applications.
- Features include small to medium capacity, various speed ranges and non-refrigerated or refrigerated options to suit all requirements.

Ingeniously Practical

FRONTIER™5000 Series

Powerful and Versatile Centrifuges for Virtually Every Lab Application

- The intuitive design of the centrifuges and accessories enable easy access to parameter settings and quick rotation between applications.
- Our multi-purpose centrifuges offer a high-speed centrifuge platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.
- The performance of these centrifuges is propelled by German engineering and high-quality components for reliable use.

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Specifications

Model	Item No.	Voltage	Speed Range	Temp. Range	Max. g-force	Max. Capacity		Product Dimensions/Weight	Shipping Dimensions/Weight
FC5916	30553036	230V	200 - 16,000 rpm	Air Cooled	24,325 xg	Swing out rotor:	4 x 750 ml	540 x 670 x 390 mm 85 kg	780 x 670 x 590 mm 98 kg
	30553037	120V				Angle rotor:	4 x 500 ml		
FC5916R	30553101	230V	200 - 16,000 rpm	-20°C to 40°C	26,328 xg	Swing out rotor:	4 x 750 ml	730 x 670 x 390 mm 118 kg	900 x 670 x 560 mm 137 kg
	30553103	120V				Angle rotor:	4 x 500 ml		
FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg
	83041048	120V				Angle rotor:	6 x 250 ml		
FC5816	30314816	230 V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg
	30314817	120V				Angle rotor:	6 x 250 ml		
FC5816R	30314818	230 V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg
	30314819	120V				Angle rotor:	6 x 250 ml		
FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg
	83041046	120V				Angle rotor:	6 x 85 ml		
FC5718	30314812	230 V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg
	30314813	120V				Angle rotor:	6 x 85 ml		
FC5718R	30314814	230 V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg
	30314815	120V				Angle rotor:	6 x 85 ml		
FC5714	30314810	230 V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg
	30314811	120V				Angle rotor:	30 x 15 ml		
FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg
	83041073					Angle rotor:	4 x 50 ml		
FC5706	30130875	230 V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg
	30130876	120V				Angle rotor:	6 x 50 ml		
FC5515	30130866	230 V	200 - 15,000 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg
	30130867	120V				Angle rotor:	44 x 1.5/2.0 ml		
FC5515R	30130868	230 V	200 - 15,000 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg
	30130869	120V				Angle rotor:	44 x 1.5/2.0 ml		
FC5513	30393187	230 V	200 - 13,500 rpm	Air Cooled	17,317 xg	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14 kg
	30393188	120V				Angle rotor:	24 x 1.5/2.0 ml		
FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg
	83041042	120V				Angle rotor:	24 x 1.5/2.0 ml		
FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg
	83041044	120V				Angle rotor:	18 x 1.5/2.0 ml		
FC5306	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 xg	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg
	30134157 (US)					Angle rotor:	8 x 1.5/2.0 ml		

*Rotor Included

Rotors for FRONTIER™ FC5916 and FC5916R

Swing Out Rotor 4 × 750 ml	
Item No.	30553085
Rotor Capacity	4 × 750 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 × 995 g
Lowest Temperatures	4 °C, however -3 °C when using 30553119

Accessory Specifications									
Accessory Item No.	30602502*	30553122	30553123	30553124	30553125	30772866	30553126	30553127	30553128
Accessory Type	Bucket	Lid assembly	O-ring	Rack					
Max. RPM (FC5916/FC5916R)	4,000/4,500			4,000/4,500					
Quantity in Package	2/pk		10/pk	2/pk					
Max. RCF (FC5916/FC5916 R)	3,434 / 4,346 × g	n/a		3,416 / 4,324 × g	3,380 / 4,278 × g	3,452 / 4,369 x g	3,416 / 4,324 × g		
Tube Specifications		n/a							
Tube Type	Flat Bottom - Herolab®	n/a		Conical Bottom - Corning®	Flat Bottom	Conical Bottom - Corning®	Conical Bottom	Round Bottom	Conical Bottom
Tube volume	750 ml	n/a		500 ml	250 ml		175/225 ml	100 ml	50 ml
Tubes per Rotor	4	n/a		4				12	20
Max. Tube Diameter (mm)	98	n/a		97	62	60	61	41	29
Tube Height (mm)	152	n/a		148	122/137	159	118/137	102/123	116

Accessory Specifications								
Accessory Item No.	30553129	30553130	30553131	30553132	30553133	30553134	30553135	30553136
Accessory Type	Rack							
Max. RPM (FC5916/FC5916R)	4,000/4,500							
Quantity in Package	2/pk							
Max. RCF (FC5916/FC5916 R)	3,416/4,324 × g			3,416 / 4,324 × g	3,434 / 4,346 × g	3,398 / 4,301 × g	3,363/4,256 × g	
Tube Specifications								
Tube Type	Skirted Conical Bottom	Conical Bottom	Round Bottom	Round Bottom	Conical Bottom		Round Bottom	
Tube volume	50 ml			30 ml	15 ml			10 ml
Tubes per Rotor	20	28		32	56	68	72	84
Max. Tube Diameter (mm)	29			26	17			16
Tube Height (mm)	100/120	116	102/123		120		97/120	70/121

*All racks are used with bucket 30602502 only

Rotors for FRONTIER™ FC5916 and FC5916R

Accessory Specifications								
Accessory Item No.	30553138	30553139	30553140	30559377	83041040	30553104	30553105	30553117*
Accessory Type	Rack					Bucket	Holder	Lid assembly
Max. RPM (FC5916/FC5916R)	4,000/4,500							
Quantity in Package	2/pk							
Max. RCF (FC5916/FC5916 R)	3,345 / 4,233 × g		3,398 / 4,301 × g	3,363 / 4,256 × g		3,130 / 3,961 × g	n/a	
Tube Specifications						n/a		
Tube Type	Round Bottom	Vacutainer® / Sarstedt®		Sarstedt®	Microtube	Microplate	n/a	
Tube volume	7 ml	1.8-7 ml	4- 10 ml	1.1-1.4 ml	1.5/2.0 ml	n/a		
Tubes per Rotor	128	108	72	152	96	12 Standard Microplates or 4 Deepwell Plates	n/a	
Max. Tube Diameter (mm)	13		16	8	11	87 × 128	n/a	
Tube Height (mm)	98/119	65/100	75/100	66	42	80	n/a	

Accessory Specifications		
Accessory Item No.	30553118	30553119
Accessory Type	O-ring	Bucket
Max. RPM (FC5916/FC5916R)	4,000/4,500	
Quantity in Package	10/pk	2/pk
Max. RCF (FC5916/FC5916R)	n/a	2,754/3,486 × g
Tube Specifications	n/a	
Tube Type	n/a	Microplate
Tube volume	n/a	n/a
Tubes per Rotor	n/a	12 Standard Microplates or 4 Deepwell Plates
Max. Tube Diameter (mm)	n/a	87 × 128
Tube Height (mm)	n/a	72

* BIOSEALS certified: When using the Lid Assembly(with 1 EA O-ring) on the rotor, the buckets are hermetically sealed. O-ring should be changed when it's worn

Rotors for FRONTIER™ FC5916 and FC5916R

Angle Rotor 4 x 500 ml	
Item No.	30553086
Rotor Capacity	4 × 500 ml
Rotor Type	Angle, 24°
Permissible Net Weight	4 × 708 g
Lowest Temperatures	7 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30559416	30559417	30559419	30559420	30559421	30559422	30564850
Accessory Type	n/a	Adapter						
Max. RPM (FC5916/FC5916R)	8,000/8,000							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5916/FC5916R)	10,374 × g	9014 / 9014 × g	9,587 / 9,587 × g	8,871 / 8,871 × g	10,231 / 10,231 × g	9,873/9,873 × g		9,801 / 9,801 × g
Tube Specifications								
Tube Type	Flat Bottom	Conical Bottom - Corning®	Conical Bottom		Round Bottom		Conical Bottom	Flat Bottom
Tube volume	500 ml	250 ml	175-225 ml	50 ml		30 ml	15 ml	250 ml
Tubes per Rotor	4				12	16	24	4
Max. Tube Diameter (mm)	69.5	60	61	29.5	29	25	17	62
Tube Height (mm)	165	159	118/137	116	103	92	120	122

Angle Rotor 6 × 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temperatures	-5 °C

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559414	30304369	30304370	30304371	30304372	30304373	30304374	30559412
Accessory Type	n/a	Adapter							
Max. RPM (FC5916/FC5916R)	8,000/8,000								
Quantity in Package	n/a	2 /pk							
Max. RCF	10,016 / 10,016 × g	10,016/10,016 × g	9,444 / 9,444 × g	9,515 / 9,515 × g	9,301 / 9,301 × g	8,943 / 8,943 × g	8,585 / 8,585 × g	8,371 / 8,371 × g	9,444 / 9,444 × g
Tube Specifications									
Tube Type	Flat Bottom	Conical Bottom	Microtube	Round Bottom	Conical Bottom	Round Bottom		Conical Bottom	Microtube
Tube volume	250 ml	175-225 ml	1.5/2.0 ml	10 ml	15 ml	30 ml	50 ml		1.5/2.0 ml
Tubes per Rotor	6	6	48	30	24	12	6		90
Max. Tube Diameter (mm)	62	61	11	16	17	26	29		11
Tube Height (mm)	122	118/137	40	80	120	92	103	116	40

Rotors for FRONTIER™ FC5916 and FC5916R

Angle Rotor 6 × 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 38°
Permissible Net Weight	6 x 140 g
Lowest Temperatures	2 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5916/FC5916R)	11,000/13,000							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5916/FC5916R)	15,555 / 21,762 × g	14,338 / 20,025 × g	14,067 / 19,647 × g	14,743 / 20,592 × g	14,338 / 20,025 × g	14,067 / 19,647 × g	15,014 / 20,970 × g	14,067 / 19,647 × g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	6						12	6
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

Angle Rotor 10 × 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temperatures	0 °C

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM (FC5916/FC5916R)	10,000/10,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF (FC5916/FC5916R)	10,899 / 11,444 × g	7,461 / 7,834 × g	10,228 / 10,739 × g	8,719 / 9,155 × g	10,480 / 11,004 × g	10,731 / 11,267 × g
Tube Specifications						
Tube Type	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA (Radioimmuno-assay)/Vacutainer®/ Sarstedt®	Round Bottom/ Vacutainer®	Conical Bottom
Tube Volume	50 ml	1.5/2.0 ml	7 ml	5 ml	15 ml	
Tubes per Rotor	10					
Max. Tube Diameter (mm)	29	11	13		17	
Tube Height (mm)	116	40	95/115	70/90	97/123	120

*Only possible with adapter 30472300 or 30472307

Rotors for FRONTIER™ FC5916 and FC5916R

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temperature	-15 °C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM (FC5916/FC5916R)	4,500/4,500	
Quantity in Package	2/pk	
Max. RCF	2,716/2,716 × g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Angle Rotor 4 × 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temperatures	4 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5916/FC5916R)	15,000/16,000							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5916/FC5916R)	23,685 / 26,331 × g	17,103 / 18,243 × g	16,902 / 18,028 × g	17,908 / 19,101 × g	17,304 / 18,457 × g	16,700 / 17,813 × g	15,091 / 16,097 × g	16,700 / 17,813 × g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	4						8	4
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

*Only without rotor lid

Rotors for FRONTIER™ FC5916 and FC5916R

Angle Rotor 6 × 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26°
Permissible Net Weight	6 x 94 g
Lowest Temperatures	-9 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30314892*
Accessory Type	n/a	Adapter			
Max. RPM (FC5916/FC5916R)	13,000/13,000				
Quantity in Package	n/a	2/pk			
Max. RCF	15,869/15,869 × g	14,649/14,649 × g	13,777/13,777 × g	13,951/13,951 × g	13,428/13,428 × g
Tube Specifications					
Tube Type	Round Bottom Oakridge	Round Bottom			Conical Bottom
Tube Volume	50 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6				
Max. Tube Diameter (mm)	29	25	18	17	
Tube Height (mm)	95/115	92/95	100/105		120

*Only without rotor lid

Angle Rotor 20 × 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30°
Permissible Net Weight	20 x 18 g
Lowest Temperatures	-7 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5916/FC5916R)	12,000/12,000
Quantity in Package	n/a
Max. RCF	15,775/15,775 × g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	10 ml
Tubes per Rotor	20
Max. Tube Diameter (mm)	16
Tube Height (mm)	80

*No Adapters

Rotors for FRONTIER™ FC5916 and FC5916R

Angle Rotor 44 × 1.5/2.0 ml	
Item No.	30372718
Rotor Capacity	44 x 1.5/2.0 ml
Rotor Type	Angle, 32°/55°
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	-3 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF	24,325/24,325 × g	23,466/23,466 × g	21,463/21,463 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	44		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30314836
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperature	-3 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	15,000/15,000		
Quantity in Package	n/a	6/pk	
Max. RCF	23,643/23,643 × g	21,361/21,361 × g	19,719/19,719 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	20	30

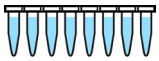
*No Adapters

Rotors for FRONTIER™ FC5916 and FC5916R

Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperatures	-5 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF	24,325/24,325 × g	21,463/21,463 × g	23,466/23,466 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 4 x 8-w PCR Strip	
Item No.	30314841
Rotor Capacity	4 x 8-w PCR Strip
Rotor Type	Angle, 45°
Permissible Net Weight	4 x 3.5 g
Lowest Temperatures	-2 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5916/FC5916R)	15,000/15,000
Quantity in Package	n/a
Max. RCF	15,343/15,343 x g
Tube Specifications	
Tube Type	8-w PCR Strip
Tube volume	0.2/0.4 ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	n/a
Tube Height (mm)	n/a

*No Adapters

Rotors for FRONTIER™ FC5830R

Angle Rotor 6 × 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temperatures	1 °C

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559414	30304369	30304370	30304371	30304372	30304373	30304374	30559412
Accessory Type	n/a	Adapter							
Max. RPM	10,000								
Quantity in Package	n/a	2 /pk							
Max. RCF	15,650 x g	14,309 x g	14,756 x g	14,868 x g	14,532 x g	13,973 x g	13,414 x g	13,079 x g	15,203 x g
Tube Specifications									
Tube Type	Flat Bottom	Conical Bottom	Microtube	Round Bottom	Conical Bottom	Round Bottom		Conical Bottom	Microtube
Tube volume	250 ml	175-225 ml	1.5/2.0 ml	10 ml	15 ml	30 ml	50 ml		1.5/2.0 ml
Tubes per Rotor	6	6	48	30	24	12	6		90
Max. Tube Diameter (mm)	62	61	11	16	17	26	29		11
Tube Height (mm)	122	118/137	40	80	120	92	103	116	40

Swing Out Rotor 4 × 290 ml	
Item No.	30314820
Rotor Capacity	4 x 290 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 533 g
Lowest Temperatures	-20 °C

Accessory Specifications							
Accessory Item No.	30314901	30314902	83041037	30314903	30314904	30314905	30304367
Accessory Type	Screw Cap	O-Ring	Bucket	Rack			Rack
Max. RPM	4,000						
Quantity in Package	2/pk	10/pk	2/pk				
Max. RCF	n/a		2,987 x g	2,884 x g	2,880 x g	2,915 x g	3,689 x g
Tube Specifications	n/a						
Tube Type	n/a		Flat Bottom	Flat Bottom	Round Bottom		Vacutainer®/ Sarstedt®
Tube volume	n/a		290 ml	250 ml	100 ml	50 ml	4-10 ml
Tubes per Rotor	n/a		4			12	32
Max. Tube Diameter (mm)	n/a		62	62	41	29	16
Tube Height (mm)	n/a		137	110/130	95/120		75/100

*Only possible with Rack 30314903

Rotors for FRONTIER™ FC5830R

Accessory Specifications							
Accessory Item No.	30304368*	30314906	30314907	30314908	30314909	30314910	30314911
Accessory Type	Adapter	Rack					
Max. RPM	4,000						
Quantity in Package	2/pk						
Max. RCF	2,808 x g	2,933 x g	2,880 x g	2,915 x g	2,880 x g		2,772 x g
Tube Specifications							
Tube Type	Microtube	Conical Bottom	Round Bottom	Skirted Conical Bottom		Round Bottom	Skirted Conical Bottom
Tube volume	1.5/2.0 ml	50 ml				25 ml	
Tubes per Rotor	36	12	4	8	4	20	12
Max. Tube Diameter (mm)	11	29	34	29		24.5	
Tube Height (mm)	40	116	100/120		116	100/120	85/100

Accessory Specifications						
Accessory Item No.	30314912	30314913	30314914	30314915	30314916	30314917
Accessory Type	Rack					
Max. RPM (FC5816/FC5816R)	4,000					
Quantity in Package	2/pk					
Max. RCF	2,915 x g		2,880 x g	2,915 x g	2,880 x g	
Tube Specifications						
Tube Type	Round Bottom	Conical Bottom	Skirted Conical Bottom	Round Bottom		Vacutainer®/Sarstedt®
Tube Volume	15 ml	15 ml		10 ml	5-7 ml	1.6-7 ml
Tubes per Rotor	36	28		32	56	40
Max. Tube Diameter (mm)	17	17		16	13	
Tube Height (mm)	76/115	95/120	100/120	80/100	65/120	65/100

Angle Rotor 6 × 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85ml
Rotor Type	Angle, 38º
Permissible Net Weight	6 x 140 g
Lowest Temperatures	-10 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM	13,000							
Quantity in Package	n/a	2/pk						
Max. RCF	21,762 x g	20,025 x g	19,647 x g	20,592 x g	20,025 x g	19,647 x g	20,970 x g	19,647 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	6						12	6
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

Rotors for FRONTIER™ FC5830R

Angle Rotor 10 × 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temperatures	-4 °C

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM	10,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF	11,444 × g	7,834 × g	10,739 × g	9,155 × g	11,004 × g	11,267 × g
Tube Specifications						
Tube Type	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA (Radioimmuno-assay)/Vacutainer®/ Sarstedt®	Round Bottom/ Vacutainer®	Conical Bottom
Tube Volume	50 ml	1.5/2.0 ml	7 ml	5 ml	15 ml	
Tubes per Rotor	10					
Max. Tube Diameter (mm)	29	11	13		17	
Tube Height (mm)	116	40	95/115	70/90	97/123	120

*Only possible with adapter 30472300 or 30472307

Angle Rotor 30 × 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35°
Permissible Net Weight	30 x 32 g
Lowest Temperatures	-20 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM	4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/115	92-107	40	95/115	70/90

Rotors for FRONTIER™ FC5830R

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90º
Permissible Net Weight	2 x 310 g
Lowest Temperature	n/a

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM	4,500	
Quantity in Package	2/pk	
Max. RCF	2,716 x g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Angle Rotor 4 × 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30º
Permissible Net Weight	4 x 140 g
Lowest Temperatures	18 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM	20,000							
Quantity in Package	n/a	2/pk						
Max. RCF	41,137 x g	38,007 x g	37,560 x g	39,896 x g	38,454 x g	37,113 x g	33,536 x g	37,113 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	4						8	4
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

*Only without rotor lid

Rotors for FRONTIER™ FC5830R

Angle Rotor 6 × 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26º
Permissible Net Weight	6 x 94 g
Lowest Temperatures	10 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30314892*
Accessory Type	n/a	Adapter			
Max. RPM	21,000				
Quantity in Package	n/a	2/pk			
Max. RCF	41,410 x g	40,242 x g	38,945 x g	39,438 x g	37,959 x g
Tube Specifications					
Tube Type	Round Bottom Oakridge	Round Bottom			Conical Bottom
Tube Volume	50 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6				
Max. Tube Diameter (mm)	29	25	18	17	
Tube Height (mm)	95/115	92/95	100/105		120

*Only without bucket lid

Angle Rotor 20 × 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30º
Permissible Net Weight	20 x 18 g
Lowest Temperatures	6 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	16,000
Quantity in Package	n/a
Max. RCF	28,045 x g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	10 ml
Tubes per Rotor	20
Max. Tube Diameter (mm)	16
Tube Height (mm)	80

*No Adapters

Rotors for FRONTIER™ FC5830R

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30314836
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperature	8 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	30,000		
Quantity in Package	n/a	6/pk	
Max. RCF	42,032 x g	40,690 x g	37,560 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 12 × 1.5/2.0 ml	
Item No.	30314839
Rotor Capacity	12 x 1.5/2.0 ml
Rotor Type	Angle, 40°
Permissible Net Weight	12 x 3.4 g
Lowest Temperatures	6 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30314900	30130885	30130884
Accessory Type	n/a	Adapter		
Max. RPM	30,000			
Quantity in Package	n/a	6/pk		
Max. RCF	65,395 x g	64,389 x g	56,340 x g	63,383 x g
Tube Specifications				
Tube Type	Microtube			
Tube Volume	1.5/2.0 ml	1.5 ml	0.5 ml	0.2/0.4 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	11	11	8	6
Tube Height (mm)	40	42	45	

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 6 × 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temperatures	6 °C

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559414	30304369	30304370	30304371	30304372	30304373	30304374	30559412
Accessory Type	n/a		Adapter						
Max. RPM (FC5916/FC5916R)	8,000/8,000								
Quantity in Package	n/a		2 /pk						
Max. RCF	10,016 / 10,016 × g	10,016/10,016 × g	9,444 / 9,444 × g	9,515 / 9,515 × g	9,301 / 9,301 × g	8,943 / 8,943 × g	8,585 / 8,585 × g	8,371 / 8,371 × g	9,444 / 9,444 × g
Tube Specifications									
Tube Type	Flat Bottom	Conical Bottom	Microtube	Round Bottom	Conical Bottom	Round Bottom		Conical Bottom	Microtube
Tube volume	250 ml	175-225 ml	1.5/2.0 ml	10 ml	15 ml	30 ml	50 ml		1.5/2.0 ml
Tubes per Rotor	6	6	48	30	24	12	6		90
Max. Tube Diameter (mm)	62	61	11	16	17	26	29		11
Tube Height (mm)	122	118/137	40	80	120	92	103	116	40

Swing Out Rotor 4 × 290 ml	
Item No.	30314820
Rotor Capacity	4 x 290 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 533 g
Lowest Temperatures	1 °C

Accessory Specifications								
Accessory Item No.	30314901	30314902	83041037	30314903	30314904	30314905	30304367	30304368*
Accessory Type	Screw Cap	O-Ring	Bucket	Rack			Rack	Adapter
Max. RPM (FC5816/FC5816R)	4,500/4,500							
Quantity in Package	2/pk	10/pk	2/pk					
Max. RCF (FC5816/FC5816R)	n/a		3,645 x g	3,554 x g	3,599 x g	3,689 x g	3,689 x g	3,554 x g
Tube Specifications	n/a							
Tube Type	n/a		Flat Bottom	Flat Bottom	Round Bottom		Vacutainer®/ Sarstedt®	Microtube
Tube volume	n/a		290 ml	250 ml	100 ml	50 ml	4-10 ml	1.5/2.0 ml
Tubes per Rotor	n/a		4	4		12	32	36
Max. Tube Diameter (mm)	n/a		62	62	41	29	16	11
Tube Height (mm)	n/a		137	110/130	95/120		75/100	40

*Only possible with Rack 30314903

Rotors for FRONTIER™ FC5816 and FC5816R

Accessory Specifications							
Accessory Item No.	30314906	30314907	30314908	30314909	30314910	30314911	30314912
Accessory Type	Rack						
Max. RPM (FC5816/FC5816R)	4,500/4,500						
Quantity in Package	2/pk						
Max. RCF	3,780 x g	3,576 x g		3,644 x g		3,508 x g	3,689 x g
Tube Specifications							
Tube Type	Conical Bottom	Round Bottom	Skirted Conical Bottom		Round Bottom	Skirted Conical Bottom	Round Bottom
Tube volume	50 ml				25 ml		15 ml
Tubes per Rotor	12	4	8	4	20	12	36
Max. Tube Diameter (mm)	29	34	29		24.5		17
Tube Height (mm)	116	100/120		116	100/120	85/100	76/115

Accessory Specifications					
Accessory Item No.	30314913	30314914	30314915	30314916	30314917
Accessory Type	Rack				
Max. RPM (FC5816/FC5816R)	4,500/4,500				
Quantity in Package	2/pk				
Max. RCF	3,712 x g	3,644 x g	3,689 x g	3,599 x g	
Tube Specifications					
Tube Type	Conical Bottom	Skirted Conical Bottom	Round Bottom		Vacutainer®/Sarstedt®
Tube Volume	15 ml		10 ml	5-7 ml	1.6-7 ml
Tubes per Rotor	28		32	56	40
Max. Tube Diameter (mm)	17		16	13	
Tube Height (mm)	95/120	100/120	80/100	65/120	65/100

Swing Out Rotor 4 × 250 ml	
Item No.	30314828
Rotor Capacity	4 x 250 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 557 g
Lowest Temperatures	2 °C

Accessory Specifications						
Accessory Item No.	83041039	30304375	30314583	30314584	30314585	83041038
Accessory Type	Rack					
Max. RPM (FC5816/FC5816R)	4,500/4,500					
Quantity in Package	2/pk					
Max. RCF	3,531 x g	3,735 x g		3,599 x g	3,531 x g	3,577 x g
Tube Specifications						
Tube Type	Flat Bottom	Conical Bottom		Vacutainer® / Sarstedt®		Sarstedt®
Tube Volume	250 ml	50 ml	15 ml	5-7 ml	4-10 ml	1.1-5 ml
Tubes per Rotor	4	16	40	56	48	72
Max. Tube Diameter (mm)	62	29	17	13	16	11
Tube Height (mm)	122	116	120	75/100		92

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 6 × 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85ml
Rotor Type	Angle, 38°
Permissible Net Weight	6 x 140 g
Lowest Temperatures	15 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5816/FC5816R)	11,000/13,000							
Quantity in Package	n/a	2/pk						
Max. RCF	15,555 /21,762 x g	14,338 /20,025 x g	14,067 /19,647 x g	14,743 /20,592 x g	14,338 /20,025 x g	14,067 /19,647 x g	15,014 /20,970 x g	14,067 /19,647 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	6						12	6
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

Angle Rotor 10 × 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temperatures	9 °C

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM (FC5816/FC5816R)	9,000/10,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF (FC5816/FC5816R)	8,174 x g	5,596 x g	7,671 x g	6,539 x g	11,318/15,406 x g	11,590/15,776 x g
Tube Specifications						
Tube Type	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA/Vacutainer®/ Sarstedt®	Round Bottom/ Vacutainer®	Conical Bottom
Tube Volume	50 ml	1.5/2.0 ml	7 ml	5 ml	15 ml	
Tubes per Rotor	10					
Max. Tube Diameter (mm)	29	11	13		17	
Tube Height (mm)	116	40	95/115	70/90	97/123	120

*Only possible with adapter 30472300 or 30472307

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 30 × 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35°
Permissible Net Weight	30 x 32 g
Lowest Temperatures	-8 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM (FC5816/FC5816R)	4,500/4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/115	92-107	40	95/115	70/90

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temperatures	-3 °C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM	4,500	
Quantity in Package	2/pk	
Max. RCF	2,716 x g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 4 × 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temperatures	5 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5816/FC5816R)	12,000/12,000							
Quantity in Package	n/a	2/pk						
Max. RCF	14,809 x g	13,682 x g	13,521 x g	14,326 x g	13,843 x g	13,360 x g	12,073 x g	13,360 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	4						8	4
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

*Only without rotor lid

Angle Rotor 6 × 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26°
Permissible Net Weight	6 x 94 g
Lowest Temperatures	0 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30314892*
Accessory Type	n/a	Adapter			
Max. RPM (FC5816/FC5816R)	13,000/13,000				
Quantity in Package	n/a	2/pk			
Max. RCF	15,869 x g	14,649 × g	13,777 × g	13,951 × g	13,428 × g
Tube Specifications					
Tube Type	Round Bottom Oakridge	Round Bottom			Conical Bottom
Tube Volume	50 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6				
Max. Tube Diameter (mm)	29	25	18	17	
Tube Height (mm)	95/115	92/95	100/105		120

*Only without bucket lid

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 20 × 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30°
Permissible Net Weight	20 x 18 g
Lowest Temperatures	0 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	12,000/12,000
Quantity in Package	n/a
Max. RCF	15,775/15,775 × g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	10 ml
Tubes per Rotor	20
Max. Tube Diameter (mm)	16
Tube Height (mm)	80

*No Adapters

Angle Rotor 44 × 1.5/2.0 ml	
Item No.	30372718
Rotor Capacity	44 x 1.5/2.0 ml
Rotor Type	Angle, 30°/55°
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	4 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5816/FC5816R)	15,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5816/FC5816R)	21,379/24,325 x g	20,625/23,466 x g	18,864/21,463 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	44		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5816 and FC5816R

Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperatures	5 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5816/FC5816R)	14,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5816/FC5816R)	18,624/24,325 x g	16,369 /21,463 x g	16,368/23,466 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5720R

Swing Out Rotor 4 x 200 ml	
Item No.	83041011
Rotor Capacity	4 x 200 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 560 g
Lowest Temperature	-8 °C

Accessory Specifications							
Accessory Item No.	83041013	83041012	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM	5,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF	4,136 x g		n/a		4,136 x g	4,080 x g	
Tube Specifications			n/a				
Tube Type	Flat Bottom		n/a		Conical Bottom	Round Bottom	
Tube volume	200 ml		n/a		200 ml	100 ml	85 ml
Tubes per Rotor	4		n/a		4		
Max. Tube Diameter (mm)	56		n/a		56	40	38
Tube Height (mm)	112		n/a		120	110/117	90/108

Accessory Specifications							
Accessory Item No.	83041019	83041020	83041021	83041022	83041023	83041024	83041025**
Accessory Type	Rack						
Max. RPM	5,000						
Quantity in Package	2/pk						
Max. RCF	4,080 x g		4,110 x g	4,080 x g			4,110 x g
Tube Specifications							
Tube Type	Round Bottom		Conical Bottom	Skirted Conical Bottom		Round Bottom	Conical Bottom
Tube volume	50 ml				30 ml		15 ml
Tubes per Rotor	4						16
Max. Tube Diameter (mm)	34	29				25	17
Tube Height (mm)	95/118	95/103	116		95/105	90/110	120

Accessory Specifications						
Accessory Item No.	83041026	83041027	83041028	83041029	83041030	83041031
Accessory Type	Rack					Bucket
Max. RPM (FC5718/FC5718R)	5,000					
Quantity in Package	2/pk					
Max. RCF	4,136 x g	4,080 x g		4,110 x g		4,136 x g
Tube Specifications						
Tube Type	Conical Bottom	Round Bottom/Vacutainer®		Conical Bottom	Microtube	Conical Bottom
Tube Volume	15 ml		7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	32	20	32	8
Max. Tube Diameter (mm)	17		13	17	11	29
Tube Height (mm)	120	60/107	65/100	60/70	42	116

All racks are used with bucket 83041012 / 83041013
* BIOSEALS certified: When using the Screw Cap (with 1 EA O-ring) on the rotor, the buckets are hermetically sealed.
O-ring should be changed when it's worn.
**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5720R

Swing Out Rotor 4 × 145 ml	
Item No.	30314822
Rotor Capacity	4 x 145 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 340 g
Lowest Temperature	-13 °C

Accessory Specifications								
Accessory Item No.	83041035	30314842	30314843	30314844	30314845	30314846	30314847	30314848
Accessory Type	Rack							
Max. RPM	4,500							
Quantity in Package	2/pk							
Max. RCF	3,147 x g	3,192 x g		3,214 x g		3,192 x g	3,237 x g	3,213 x g
Tube Specifications								
Tube Type	Flat Bottom Nalgene®	Round Bottom	Round Bottom/ Oak Ridge	Round Bottom		Conical Bottom	Skirted Conical Bottom	
Tube volume	145 ml	100 ml	85 ml	50 ml				30 ml
Tubes per Rotor	4	4						
Max. Tube Diameter (mm)	50	44	38	34	29			25
Tube Height (mm)	100	90/108		92/118	90/108	116		95/105

Accessory Specifications							
Accessory Item No.	30314849	30314850	30314851	30314852	30314853	30314854	30314855
Accessory Type	Rack						
Max. RPM	4,500						
Quantity in Package	2/pk						
Max. RCF	3,259 x g	3,350 x g	3,282 x g		3,214 x g	2,241 x g	3169 x g
Tube Specifications							
Tube Type	Round Bottom	Conical Bottom	Skirted Conical Bottom	Round Bottom / Vacutainer®	Round Bottom	Microtube	Flat Bottom
Tube volume	25 ml	15 ml			5-7 ml	1.5 ml	4.5 ml
Tubes per Rotor	4	8	4	28	36	40	36
Max. Tube Diameter (mm)	17	17		16	13	11	12
Tube Height (mm)	95/105	120		90/108	75/100	42	75/100

Accessory Specifications			
Accessory Item No.	30314856	30314857	30314858
Accessory Type	Rack		
Max. RPM	4,500		
Quantity in Package	2/pk		
Max. RCF	2,626 x g	3,214 x g	3,237 x g
Tube Specifications			
Tube Type	Round Bottom	Vacutainer®	Sarstedt®
Tube volume	5-7 ml		4-10 ml
Tubes per Rotor	28		20
Max. Tube Diameter (mm)	13		16
Tube Height (mm)	65/80	75/100	

Rotors for FRONTIER™ FC5720R

Angle Rotor 6 × 85 ml	
Item No.	30314825
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 25º
Permissible Net Weight	6 x 140 g
Lowest Temperatures	4 °C

Accessory Specifications	n/a									
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	83041033	83041034	30314898	30314899
Accessory Type	n/a	Adapter								
Max. RPM	13,500									
Quantity in Package	n/a	2/pk								
Max. RCF	20,984 x g	19,557 x g		20,372 x g		18,946 x g	19,151 x g		20,984 x g	19,354 x g
Tube Specifications										
Tube Type	Round Bottom				Conical Bottom		Skirted Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml	50 ml		15 ml	16 ml
Tubes per Rotor	6								12	6
Max. Tube Diameter (mm)	38	17	25	29		17	29	17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	118	120	95/100	103/110

Angle Rotor 6 × 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85ml
Rotor Type	Angle, 38º
Permissible Net Weight	6 x 140 g
Lowest Temperatures	5 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM	13,000							
Quantity in Package	n/a	2/pk						
Max. RCF	21,762 x g	20,025 x g	19,647 x g	20,592 x g	20,025 x g	19,647 x g	20,970 x g	19,647 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	6						12	6
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

Rotors for FRONTIER™ FC5720R

Angle Rotor 10 × 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38º
Permissible Net Weight	10 x 76 g
Lowest Temperatures	-6 °C

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM	9,000					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF	8,174 x g	5,596 x g	7,671 x g	6,539 x g	11,318 x g	11,590 x g
Tube Specifications						
Tube Type	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA (Radioimmuno-assay)/Vacutainer®/ Sarstedt®	Round Bottom/ Vacutainer®	Conical Bottom
Tube Volume	50 ml	1.5/2.0 ml	7 ml	5 ml	15 ml	
Tubes per Rotor	10					
Max. Tube Diameter (mm)	29	11	13		17	
Tube Height (mm)	116	40	95/115	70/90	97/123	120

*Only possible with adapter 30472300 or 30472307

Angle Rotor 30 × 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35º
Permissible Net Weight	30 x 32 g
Lowest Temperatures	-8 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM	4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/115	92-107	40	95/115	70/90

Rotors for FRONTIER™ FC5720R

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temperature	-14°C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM	4,500	
Quantity in Package	2/pk	
Max. RCF	2,716 x g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Angle Rotor 4 × 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temperatures	1 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM	15,000							
Quantity in Package	n/a	2/pk						
Max. RCF	23,685 x g	17,103 x g	16,902 x g	17,908 x g	17,304 x g	16,700 x g	15,091 x g	16,700 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	4						8	4
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

*Only without rotor lid

Rotors for FRONTIER™ FC5720R

Angle Rotor 6 × 50 ml	
Item No.	30314830
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 40°
Permissible Net Weight	6 x 72 g
Lowest Temperature	-18 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a		30130886*	30130889*	30130890*	30130891	30130892	30130894
Accessory Type	n/a		Adapter					
Max. RPM	6,000							
Quantity in Package	n/a		6/pk	2/pk				
Max. RCF	4,427 x g		2,696 x g	4,105 x g	3,340 x g	4,306 x g	4,145 x g	4,266 x g
Tube Specifications								
Tube Type	Round Bottom	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA/Vacutainer® /Sarstedt®	Round Bottom/Vacutainer®		Round Bottom/ Conical Bottom
Tube volume	50 ml		1.5/2.0 ml	7 ml	5 ml	30 ml	16 ml	15 ml
Tubes per Rotor	6							
Max. Tube Diameter (mm)	29		11	13		25	18	17
Tube Height (mm)	100/120	116	42	95/100	65/75	100	100/105	97/120

* only possible with adapter 30130894

Angle Rotor 6 × 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26°
Permissible Net Weight	6 x 94 g
Lowest Temperatures	-3 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30314892*
Accessory Type	n/a	Adapter			
Max. RPM	16,000				
Quantity in Package	n/a	2/pk			
Max. RCF	24,039 x g	23,466 x g	22,608 x g	22,894 x g	22,035 x g
Tube Specifications					
Tube Type	Round Bottom Oakridge	Round Bottom			Conical Bottom
Tube Volume	50 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6				
Max. Tube Diameter (mm)	29	25	18	17	
Tube Height (mm)	95/115	92/95	100/105		120

*Only without bucket lid

Rotors for FRONTIER™ FC5720R

Angle Rotor 20 × 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30°
Permissible Net Weight	20 x 18 g
Lowest Temperatures	-1 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	14,000
Quantity in Package	n/a
Max. RCF	21,472 x g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	10 ml
Tubes per Rotor	20
Max. Tube Diameter (mm)	16
Tube Height (mm)	80

*No Adapters

Angle Rotor 12 × 15 ml	
Item No.	30314834
Rotor Capacity	12 x 15 ml
Rotor Type	Angle, 32°
Permissible Net Weight	12 x 25 g
Lowest Temperatures	-20 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130889	30130890
Accessory Type	n/a	Adapter		
Max. RPM	6,000			
Quantity in Package	n/a	6/pk	2/pk	
Max. RCF	4,427 x g	3,059 x g	4,266 x g	3,662 x g
Tube Specifications				
Tube Type	Round Bottom / Conical Bottom	Microtube	Round Bottom/Vacutainer®	Round Bottom
Tube Volume	15 ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	13	
Tube Height (mm)	120	42	95/115	65/90

Rotors for FRONTIER™ FC5720R

Angle Rotor 44 × 1.5/2.0 ml	
Item No.	30372718
Rotor Capacity	44 x 1.5/2.0 ml
Rotor Type	Angle, 32°/55°
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	-6 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	15,000		
Quantity in Package	n/a	6/pk	
Max. RCF	21,379 x g	20,625 x g	18,864 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	44		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30314836
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperature	7 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	17,000		
Quantity in Package	n/a	6/pk	
Max. RCF	30,368 x g	29,399 x g	27,137 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5720R

Angle Rotor 24 × 1.5/2.0 ml BIOSEALS	
Item No.	30304361
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperature	13°C

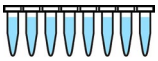
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	20,000		
Quantity in Package	n/a	6/pk	
Max. RCF	38,007 x g	34,430 x g	37,113 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperatures	-1 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	16,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF	24,325 × g	21,463 × g	23,466 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5720R

Angle Rotor 4 x 8-w PCR Strip	
Item No.	30314841
Rotor Capacity	4 x 8-w PCR Strip
Rotor Type	Angle, 45°
Permissible Net Weight	4 x 3.5 g
Lowest Temperatures	-7 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	15,000
Quantity in Package	n/a
Max. RCF	15,343 × g
Tube Specifications	
Tube Type	8-w PCR Strip
Tube volume	02./04. ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	n/a
Tube Height (mm)	n/a

*No Adapters

Rotors for FRONTIER™ FC5718 and FC5718R

Swing Out Rotor 4 x 200 ml	
Item No.	83041011
Rotor Capacity	4 x 200 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 560 g
Lowest Temperature	6 °C

Accessory Specifications							
Accessory Item No.	83041013	83041012	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM	5,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF	4,136 x g		n/a		4,136 x g	4,080 x g	
Tube Specifications			n/a				
Tube Type	Flat Bottom		n/a		Conical Bottom	Round Bottom	
Tube volume	200 ml		n/a		200 ml	100 ml	85 ml
Tubes per Rotor	4		n/a		4		
Max. Tube Diameter (mm)	56		n/a		56	40	38
Tube Height (mm)	112		n/a		120	110/117	90/108

Accessory Specifications							
Accessory Item No.	83041019	83041020	83041021	83041022	83041023	83041024	83041025**
Accessory Type	Rack						
Max. RPM	5,000						
Quantity in Package	2/pk						
Max. RCF	4,080 x g		4,110 x g	4,080 x g			4,110 x g
Tube Specifications							
Tube Type	Round Bottom		Conical Bottom	Skirted Conical Bottom		Round Bottom	Conical Bottom
Tube volume	50 ml				30 ml		15 ml
Tubes per Rotor	4						16
Max. Tube Diameter (mm)	34	29				25	17
Tube Height (mm)	95/118	95/103	116	116	95/105	90/110	120

Accessory Specifications						
Accessory Item No.	83041026	83041027	83041028	83041029	83041030	83041031
Accessory Type	Rack					Bucket
Max. RPM (FC5718/FC5718R)	5,000					
Quantity in Package	2/pk					
Max. RCF	4,136 x g	4,080 x g		4,110 x g		4,136 x g
Tube Specifications						
Tube Type	Conical Bottom	Round Bottom/Vacutainer®		Conical Bottom	Microtube	Conical Bottom
Tube Volume	15 ml		7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	32	20	32	8
Max. Tube Diameter (mm)	17		13	17	11	29
Tube Height (mm)	120	60/107	65/100	60/70	42	116

All racks are used with bucket 83041012 / 83041013
* BIOSEALS certified: When using the Screw Cap (with 1 EA O-ring) on the rotor, the buckets are hermetically sealed. O-ring should be changed when it's worn.
**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5718 and FC5718R

Swing Out Rotor 4 x 145 ml	
Item No.	30314822
Rotor Capacity	4 x 145 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 340 g
Lowest Temperature	-2 °C

Accessory Specifications								
Accessory Item No.	83041035	30314842	30314843	30314844	30314845	30314846	30314847	30314848
Accessory Type	Rack							
Max. RPM (FC5718/FC5718R)	4,500/4,500							
Quantity in Package	2/pk							
Max. RCF	3,147 x g	3,192 x g		3,214 x g		3,192 xa g	3,237 x g	3,213 x g
Tube Specifications								
Tube Type	Flat Bottom Nalgene®	Round Bottom	Round Bottom/ Oak Ridge	Round Bottom		Conical Bottom	Skirted Conical Bottom	
Tube volume	145 ml	100 ml	85 ml	50 ml				30 ml
Tubes per Rotor	4	4						
Max. Tube Diameter (mm)	50	44	38	34	29			25
Tube Height (mm)	100	90/108		92/118	90/118	116		95/105

Accessory Specifications							
Accessory Item No.	30314849	30314850	30314851	30314852	30314853	30314854	30314855
Accessory Type	Rack						
Max. RPM (FC5718/FC5718R)	4,500/4,500						
Quantity in Package	2/pk						
Max. RCF	3,259 x g	3,350 x g	3,282 x g		3,214 x g	2,241 x g	3,169 x g
Tube Specifications							
Tube Type	Round Bottom	Conical Bottom	Skirted Conical Bottom	Round Bottom / Vacutainer®	Round Bottom	Microtube	Conical Bottom
Tube volume	25 ml	15 ml			5-7 ml	1.5 ml	4.5 ml
Tubes per Rotor	4	8	4	28	36	40	36
Max. Tube Diameter (mm)	17			16	13	11	13
Tube Height (mm)	95/105	120		90/108	75/100	42	75/100

Accessory Specifications			
Accessory Item No.	30314856	30314857	30314858
Accessory Type	Rack		
Max. RPM (FC5718/FC5718R)	4,500/4,500		
Quantity in Package	2/pk		
Max. RCF	2,626 x g	3,214 x g	3,237 x g
Tube Specifications			
Tube Type	Round Bottom	Vacutainer®	Sarstedt®
Tube Volume	5-7 ml		4-10 ml
Tubes per Rotor	28		20
Max. Tube Diameter (mm)	13		16
Tube Height (mm)	65/80	75/100	

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 6 × 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 38º
Permissible Net Weight	6 x 140 g
Lowest Temperatures	1 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5718/FC5718R)	9,000/9,000							
Quantity in Package	n/a	2/pk						
Max. RCF	10,413 x g	9,598 x g	9,417 x g	9,870 x g	9,598 x g	9,417 x g	10,051 x g	9,417 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	6						12	6
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

Angle Rotor 6 × 85 ml	
Item No.	30314825
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 25º
Permissible Net Weight	6 x 140 g
Lowest Temperatures	15 °C

Accessory Specifications	n/a									
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	83041033	83041034	30314898	30314899
Accessory Type	n/a	Adapter								
Max. RPM (FC5718/FC5718R)	11,000/13,500									
Quantity in Package	n/a	2/pk								
Max. RCF (FC5718/FC5718R)	13,932 /20,984 x g	12,985 /19,557 x g		13,526 /20,372 x g		12,579 /18,946 x g	12,715 / 19,151 x g		13,932 / 20,984 x g	12,850 /19,354 x g
Tube Specifications										
Tube Type	Round Bottom				Conical Bottom		Skirted Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml	50 ml	15 ml		16 ml
Tubes per Rotor	6								12	6
Max. Tube Diameter (mm)	38	17	25	29		17	29	17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	118	120	95/100	103/110

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 10 × 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temperatures	0 °C

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM (FC5718/FC5718R)	7,500/7,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF	8,174 x g	5,596 x g	7,671 x g	6,539 x g	7860 x g	8048 x g
Tube Specifications						
Tube Type	Conical Bottom	Microtube	Round Bottom	RIA/Vacutainer®/ Sarstedt®	Round Bottom	Conical Bottom
Tube Volume	50 ml	1.5/2.0 ml	7 ml	5 ml	15 ml	
Tubes per Rotor	10					
Max. Tube Diameter (mm)	29	11	13		17	
Tube Height (mm)	118	42	95/115	70/90	97/123	120

*Only possible with adapter 30472300 or 30472307

Angle Rotor 30 × 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35°
Permissible Net Weight	30 x 32 g
Lowest Temperatures	-7 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM (FC5718/FC5718R)	4,500/4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/115	92-107	42	95/115	65/90

Rotors for FRONTIER™ FC5718 and FC5718R

Swing Out Rotor 4 × 100 ml Sealable	
Item No.	30314823
Rotor Capacity	4 x 100 ml
Rotor Type	Swing Out, 0-90º
Permissible Net Weight	4 x 465 g
Lowest Temperatures	2 °C

Accessory Specifications							
Accessory Item No.	30314860*	30314861*	30314862	30314863	30314864	30314865	30314866
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM (FC5718/FC5718R)	5,000/5,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF	3,779 x g		n/a		3,672 x g	3,725 x g	
Tube Specifications	n/a						
Tube Type	n/a				Round Bottom	Round Bottom/ Oak Ridge	Round Bottom
Tube volume	n/a				100 ml	85 ml	50 ml
Tubes per Rotor	4						
Max. Tube Diameter (mm)	n/a				40	38	34
Tube Height (mm)	n/a				90/108		92/118

*Must use rack -30314864 when using 100mL tubes

Accessory Specifications							
Accessory Item No.	30314867	30314868	30314869	30314870	30314871	30314872	30314873*
Accessory Type	Rack						
Max. RPM (FC5718/FC5718R)	5,000/5,000						
Quantity in Package	2/pk						
Max. RCF	3,725 x g	3,751 x g	3,699 x g	3,486 x g	3,725 x g	3,752 x g	
Tube Specifications							
Tube Type	Round Bottom/ Oak Ridge	Conical Bottom	Skirted Conical Bottom		Round Bottom	Conical Bottom	
Tube volume	50 ml			30 ml	25 ml	15 ml	
Tubes per Rotor	4					4	8
Max. Tube Diameter (mm)	29			25		17	
Tube Height (mm)	90/113	116		95/105	95/110	120	

Accessory Specifications							
Accessory Item No.	30314874	30314875	30314876	30314877	30314878	30314879	30314880
Accessory Type	Rack						
Max. RPM (FC5718/FC5718R)	5,000/5,000						
Qty in Package	2/pk						
Max. RCF	3,725 x g						
Tube Specifications							
Tube Type	Skirted Conical Bottom	Round Bottom		Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	28	20	12	16	
Max. Tube Diameter (mm)	17		13	11	17	13	16
Tube Height (mm)	120	90/108	75/100	42	85/100	75/100	

Rotors for FRONTIER™ FC5718 and FC5718R

Accessory Specifications		
Accessory Item No.	30314881	30314882
Accessory Type	Bucket	
Max. RPM (FC5718/FC5718R)	5,000/5,000	
Quantity in Package	2/pk	
Max. RCF	3,885 x g	
Tube Specifications		
Tube Type	Conical Bottom	
Tube volume	50 ml	15 ml
Tubes per Rotor	8	12
Max. Tube Diameter (mm)	29	17
Tube Height (mm)	116	120

*Only without bucket lid

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temperatures	-5 °C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM (FC5718/FC5718R)	4,500/4,500	
Quantity in Package	2/pk	
Max. RCF	2,716 x g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 4 × 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temperatures	3 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5718/FC5718R)	12,000/12,000							
Quantity in Package	n/a	2/pk						
Max. RCF	14,809 x g	13,682 x g	13521 x g	14,326 x g	13,843 x g	13,360 x g	12,073 x g	13,360 x g
Tube Specifications								
Tube Type	Round Bottom				Conical Bottom		Round Bottom	
Tube volume	85 ml	15 ml	30 ml	50 ml		15 ml		16 ml
Tubes per Rotor	4						8	4
Max. Tube Diameter (mm)	38	17	25	29		17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	95/100	103/110

*Only without rotor lid

Angle Rotor 6 × 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26°
Permissible Net Weight	6 x 94 g
Lowest Temperatures	4 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30314892*
Accessory Type	n/a	Adapter			
Max. RPM (FC5718/FC5718R)	12,000/12,000				
Quantity in Package	n/a	2/pk			
Max. RCF	13,522 x g	13,200 x g	12,717 x g	12,878 x g	12,395 x g
Tube Specifications					
Tube Type	Round Bottom Oakridge	Round Bottom			Conical Bottom
Tube Volume	50 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6				
Max. Tube Diameter (mm)	29	25	18	17	
Tube Height (mm)	95/115	92/95	100/105		120

*Only without rotor lid

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 6 × 50 ml	
Item No.	30314830
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 40º
Permissible Net Weight	6 x 72 g
Lowest Temperatures	-6 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a		30130886*	30130889*	30130890*	30130891	30130892	30130894
Accessory Type	n/a		Adapter					
Max. RPM (FC5718/FC5718R)	6,000/6,000							
Quantity in Package	n/a		6/pk	2/pk				
Max. RCF	4,427 x g		2,696 x g	4,105 x g	3,340 x g	4,306 x g	4,145 x g	4,266 x g
Tube Specifications								
Tube Type	Round Bottom	Conical Bottom	Microtube	Round Bottom	RIA/ Vacutainer®/ Sarstedt®	Round Bottom		Round Bottom/ Conical Bottom
Tube volume	50 ml		1.5/2.0 ml	7 ml	5 ml	30 ml	16 ml	15 ml
Tubes per Rotor	6							
Max. Tube Diameter (mm)	29		11	13		26	17	18
Tube Height (mm)	100/120	116	42	95/100	65/75	100	100/105	120

*Only possible with adapter 30130894

Angle Rotor 20 × 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30º
Permissible Net Weight	20 x 18 g
Lowest Temperatures	4 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5718/FC5718R)	12,000/12,000
Quantity in Package	n/a
Max. RCF (FC5718/FC5718R)	15,775/15,775 × g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	10 ml
Tubes per Rotor	20
Max. Tube Diameter (mm)	16
Tube Height (mm)	80

*No Adapters

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 12 × 15 ml	
Item No.	30314834
Rotor Capacity	12 x 15 ml
Rotor Type	Angle, 32º
Permissible Net Weight	12 x 25 g
Lowest Temperatures	-9 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130889	30130890
Accessory Type	n/a	Adapter		
Max. RPM (FC5718/FC5718R)	6,000/6,000			
Quantity in Package	n/a	6/pk	2/pk	
Max. RCF	4,427 x g	3,059 x g	4,266 x g	3,662 x g
Tube Specifications				
Tube Type	Round Bottom / Conical Bottom	Microtube	Round Bottom/Vacutainer®	Round Bottom
Tube Volume	15 ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	13	
Tube Height (mm)	120	42	95/115	65/90

Angle Rotor 44 × 1.5/2.0 ml	
Item No.	30372718
Rotor Capacity	44 x 1.5/2.0 ml
Rotor Type	Angle, 32º/55º
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	3 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC718/FC5718R)	15,000/15,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5718/FC5718R)	21,379/21,379 x g	20,625/20,625 x g	18,864/18,864 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	44		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 12 × 5 ml FA Sealable	
Item No.	83041010
Rotor Capacity	12 x 5 ml
Rotor Type	Angle, 45°
Permissible Net Weight	12 x 9.5 g
Lowest Temperature	2 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130887	30130888
Accessory Type	n/a	Adapter		
Max. RPM (FC5718/FC5718R)	4,500	14,000/15,000		
Quantity in Package	n/a	6/pk		
Max. RCF (FC5718/FC5718R)	18,624/21,379 x g	15,337/17,606 x g	15,994/18,361 x g	16,433/18,864 x g
Tube Specifications				
Tube Type	Microtube		Cryo Tube - Flat Bottom	Cryo Tube - Round Bottom
Tube Volume	5 ml	1.5/2.0 ml	1.0 ml	1.8 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	12.6	
Tube Height (mm)	60	42	41	48

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30314836
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperatures	6 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5718/FC5718R)	13,000/14,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5718/FC5718R)	17,758/20,595 x g	17,191/19,937 x g	15,869/18,404 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperatures	3 °C

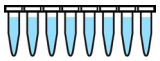
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000/16,000		
Quantity in Package	n/a	6/pk	
Max. RCF	24,325/24,325 × g	21,463/21,463 × g	23,466/23,466 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 12 × 1.5/2.0 ml	
Item No.	30314839
Rotor Capacity	12 x 1.5/2.0 ml
Rotor Type	Angle, 40°
Permissible Net Weight	12 x 3.4 g
Lowest Temperatures	-2 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30314900	30130885	30130884
Accessory Type	n/a	Adapter		
Max. RPM (FC5718/FC5718R)	18,000/18,000			
Quantity in Package	n/a	6/pk		
Max. RCF	23,542 x g	23,180 x g	20,282 x g	22,818 x g
Tube Specifications				
Tube Type	Microtube			
Tube Volume	1.5/2.0 ml	1.5 ml	0.5 ml	0.2/0.4 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	11	11	8	6
Tube Height (mm)	40	42	45	

Rotors for FRONTIER™ FC5718 and FC5718R

Angle Rotor 4 x 8-w PCR Strip	
Item No.	30314841
Rotor Capacity	4 x 8-w PCR Strip
Rotor Type	Angle, 45°
Permissible Net Weight	4 x 3.5 g
Lowest Temperatures	2 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	15,000
Quantity in Package	n/a
Max. RCF	15,343 × g
Tube Specifications	
Tube Type	8-w PCR Strip
Tube volume	02./04. ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	n/a
Tube Height (mm)	n/a

*No Adapters

Rotors for FRONTIER™ FC5714

Swing Out Rotor 4 x 200 ml	
Item No.	83041011
Rotor Capacity	4 x 200 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 560 g
Lowest Temperature	-8 °C

Accessory Specifications							
Accessory Item No.	83041013	83041012	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM	4,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF	2,647 x g		n/a		2,647 x g	2,611 x g	
Tube Specifications			n/a				
Tube Type	Flat Bottom		n/a		Conical Bottom	Round Bottom	
Tube volume	200 ml		n/a		200 ml	100 ml	85 ml
Tubes per Rotor	4		n/a		4		
Max. Tube Diameter (mm)	56		n/a		56	40	38
Tube Height (mm)	112		n/a		120	110/117	90/108

Accessory Specifications							
Accessory Item No.	83041019	83041020	83041021	83041022	83041023	83041024	83041025**
Accessory Type	Rack						
Max. RPM	4,000						
Quantity in Package	2/pk						
Max. RCF	2,611 x g		2,629 x g	2,611 x g			2,629 x g
Tube Specifications							
Tube Type	Round Bottom		Conical Bottom	Skirted Conical Bottom		Round Bottom	Conical Bottom
Tube volume	50 ml				30 ml		15 ml
Tubes per Rotor	4						16
Max. Tube Diameter (mm)	34	29				25	17
Tube Height (mm)	95/118	95/103	116	116	95/105	90/110	120

Accessory Specifications						
Accessory Item No.	83041026	83041027	83041028	83041029	83041030	83041031
Accessory Type	Rack					Bucket
Max. RPM (FC5718/FC5718R)	4,000					
Quantity in Package	2/pk					
Max. RCF	2,647 x g	2,611 x g		2,629 x g		2,647 x g
Tube Specifications						
Tube Type	Conical Bottom	Round Bottom/Vacutainer®		Conical Bottom	Microtube	Conical Bottom
Tube Volume	15 ml		7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	32	20	32	8
Max. Tube Diameter (mm)	17		13	17	11	29
Tube Height (mm)	120	60/107	65/100	60/70	42	116

All racks are used with bucket 83041012 / 83041013
* BIOSEALS certified: When using the Screw Cap (with 1 EA O-ring) on the rotor, the buckets are hermetically sealed. O-ring should be changed when it's worn.
**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5714

Swing Out Rotor 4 × 145 ml	
Item No.	30314822
Rotor Capacity	4 x 145 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 340 g
Lowest Temperature	n/a

Accessory Specifications								
Accessory Item No.	83041035	30314842	30314843	30314844	30314845	30314846	30314847	30314848
Accessory Type	Rack							
Max. RPM	4,500							
Quantity in Package	2/pk							
Max. RCF	3,147 x g	3,192 x g		3,214 x g		3,192 x g	3,237 x g	3,124 x g
Tube Specifications								
Tube Type	Flat Bottom Nalgene®	Round Bottom	Round Bottom/ Oak Ridge	Round Bottom		Conical Bottom	Skirted Conical Bottom	
Tube volume	145 ml	100 ml	85 ml	50 ml				30 ml
Tubes per Rotor	4							
Max. Tube Diameter (mm)	50	44	38	34	29			25
Tube Height (mm)	100	90/108		92/118	90/108	116		95/105

Accessory Specifications							
Accessory Item No.	30314849	30314850	30314851	30314852	30314853	30314854	30314855
Accessory Type	Rack						
Max. RPM	4,500						
Quantity in Package	2/pk						
Max. RCF	3259	3350	3282		3214	2241	3169
Tube Specifications							
Tube Type	Round Bottom	Conical Bottom	Skirted Conical Bottom	Round Bottom / Vacutainer®	Round Bottom	Microtube	Flat Bottom
Tube volume	25 ml	15 ml			5-7 ml	1.5 ml	4.5 ml
Tubes per Rotor	4	8	4	28	36	40	36
Max. Tube Diameter (mm)	25	17		16	13	11	12
Tube Height (mm)	95/105	120		90/108	75/100	42	75/100

Accessory Specifications			
Accessory Item No.	30314856	30314857	30314858
Accessory Type	Rack		
Max. RPM	4,500		
Quantity in Package	2/pk		
Max. RCF	2,626 x g	3,214 x g	3,237 x g
Tube Specifications			
Tube Type	Round Bottom	Vacutainer®	Sarstedt®
Tube volume	5-7 ml		4-10 ml
Tubes per Rotor	28		20
Max. Tube Diameter (mm)	13		16
Tube Height (mm)	65/80	75/100	

Rotors for FRONTIER™ FC5714

Angle Rotor 30 × 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35°
Permissible Net Weight	30 x 32 g
Lowest Temperature	n/a

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM	4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/115	92-107	42	95/115	65/90

Swing Out Rotor 4 × 100 ml Sealable	
Item No.	30314823
Rotor Capacity	4 x 100 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 465 g
Lowest Temperature	n/a

Accessory Specifications							
Accessory Item No.	30314860*	30314861*	30314862	30314863	30314864	30314865	30314866
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM	4,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF	n/a				2,350 x g	2,384 x g	
Tube Specifications	n/a						
Tube Type	n/a				Round Bottom	Round Bottom/ Oak Ridge	Round Bottom
Tube volume	n/a				100 ml	85 ml	50 ml
Tubes per Rotor	n/a				4		
Max. Tube Diameter (mm)	n/a				40	38	34
Tube Height (mm)	n/a				90/108		92/118

Rotors for FRONTIER™ FC5714

Accessory Specifications							
Accessory Item No.	30314867	30314868	30314869	30314870	30314871	30314872	30314873*
Accessory Type	Rack						
Max. RPM	4,000						
Quantity in Package	2/pk						
Max. RCF	2,383 x g	2,400 x g	2,366 x g	2,230 x g	2,383 x g	2,401 x g	
Tube Specifications							
Tube Type	Round Bottom/ Oak Ridge	Conical Bottom	Skirted Conical Bottom		Round Bottom	Conical Bottom	
Tube volume	50 ml			30 ml	25 ml	15 ml	
Tubes per Rotor	4					4	8
Max. Tube Diameter (mm)	29			25		17	
Tube Height (mm)	90/113	116		95/105	95/110	120	

*Must use rack - 30314864 when using 100mL tubes

Accessory Specifications							
Accessory Item No.	30314874*	30314875	30314876	30314877	30314878	30314879	30314880
Accessory Type	Rack						
Max. RPM	4,000						
Quantity in Package	2/pk						
Max. RCF	2,383 x g						
Tube Specifications							
Tube Type	Skirted Conical Bottom	Round Bottom		Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	28	20	12	16	
Max. Tube Diameter (mm)	17		13	11	17	13	16
Tube Height (mm)	120	90/108	75/100	42	85/100	75/100	

Accessory Specifications		
Accessory Item No.	30314881	30314882
Accessory Type	Bucket	
Max. RPM	4,000	
Quantity in Package	2/pk	
Max. RCF	2,486 x g	
Tube Specifications		
Tube Type	Conical Bottom	
Tube volume	50 ml	15 ml
Tubes per Rotor	8	12
Max. Tube Diameter (mm)	29	17
Tube Height (mm)	116	120

*Only without bucket lid

Rotors for FRONTIER™ FC5714

Swing Out Rotor 2 × 3 MTP w/Bucket	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temperature	n/a

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	Adapter
Max. RPM	4,500	
Quantity in Package	2/pk	
Max. RCF	2,716 x g	
Tube Specifications	n/a	
Tube Type	Microplate	Microtube
Tube volume	MTP	1.5/2.0 ml
Tubes per Rotor	6 Standard Microplates or 2 Deepwell Plates	96
Max. Tube Diameter (mm)	87 x 128	11
Tube Height (mm)	63	42

Angle Rotor 6 × 50 ml	
Item No.	30314830
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 40°
Permissible Net Weight	6 x 72 g
Lowest Temperature	n/a

Accessory Specifications	n/a						
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30130891	30130892	30130894
Accessory Type	n/a	Adapter					
Max. RPM	6,000						
Quantity in Package	n/a	6/pk	2/pk				
Max. RCF	4,427 x g	2,696 x g	4,105 x g	3,340 x g	4,306 x g	4,145 x g	4,266 x g
Tube Specifications							
Tube Type	Round Bottom/ Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA/Vacutainer® / Sarstedt®	Round Bottom/Vacutainer®		Round Bottom/ Conical Bottom
Tube volume	50 ml	1.5/2.0 ml	7 ml	5 ml	30 ml	16 ml	15 ml
Tubes per Rotor	6						
Max. Tube Diameter (mm)	29	11	13		25	18	17
Tube Height (mm)	100/120	42	95/100	65/90	100	100/105	97/120

* only possible with adapter 30130894

Rotors for FRONTIER™ FC5714

Angle Rotor 12 × 15 ml	
Item No.	30314834
Rotor Capacity	12 x 15 ml
Rotor Type	Angle, 32°
Permissible Net Weight	12 x 25 g
Lowest Temperature	n/a

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130889	30130890
Accessory Type	n/a	Adapter		
Max. RPM	6,000			
Quantity in Package	n/a	6/pk	2/pk	
Max. RCF	4,427 x g	3,059 x g	4,266 x g	3,662 x g
Tube Specifications				
Tube Type	Round Bottom / Conical Bottom	Microtube	Round Bottom/Vacutainer®	Round Bottom
Tube Volume	15 ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	13	
Tube Height (mm)	120	42	95/115	65/90

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30314836
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperature	n/a

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	12,000		
Quantity in Package	n/a	6/pk	
Max. RCF	15,131 x g	13,521 x g	14,648 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5714

Angle Rotor 12 × 5 ml FA Sealable	
Item No.	83041010
Rotor Capacity	12 x 5 ml
Rotor Type	Angle, 45°
Permissible Net Weight	12 x 9.5 g
Lowest Temperature	n/a

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130887	30130888
Accessory Type	n/a	Adapter		
Max. RPM	4,500	14,000		
Quantity in Package	n/a	6/pk		
Max. RCF	18,624 x g	15,337 x g	15,994 x g	16,433 x g
Tube Specifications				
Tube Type	Microtube		Cryo Tube - Flat Bottom	Cryo Tube - Round Bottom
Tube Volume	5 ml	1.5/2.0 ml	1.0 ml	1.8 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	12.6	
Tube Height (mm)	60	42	41	48

Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperature	n/a

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	14,000		
Quantity in Package	n/a	6/pk	
Max. RCF	18,624 x g	16,433 x g	17,967 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5707

Angle Rotor 4 x 50 ml RB/FA or 15 ml RB/FA	
Item No.	83041009
Rotor Capacity	4x50ml RB/FA or 15ml RB/FA
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 72g
Lowest Temperature	n/a

Accessory Specifications	n/a	n/a
Accessory Item No.	n/a	n/a
Accessory Type	n/a	n/a
Max. RPM	6,800	6,800
Quantity in Package	n/a	n/a
Max. RCF	4,445 x g	4,445 x g
Tube Specifications		
Tube Type	Conical Bottom/Round Bottom	
Tube volume	50 ml	15 ml
Tubes per Rotor	4	4
Max. Tube Diameter (mm)	29	17
Tube Height (mm)	116	120

Angle Rotor 8 x 15 ml RB or 4 x 15 ml FA	
Item No.	30472305
Rotor Capacity	8 × 15 ml(Round bottom tube) 4 × 15 ml(Conical bottom tube)
Rotor Type	Angle, 32°
Permissible Net Weight	8 x 25 g
Lowest Temperature	n/a

Accessory Specifications	n/a	n/a				
Accessory Item No.	n/a	n/a	30130889	30130890	83041036	30130886
Accessory Type	n/a	n/a	Adapter			
Max. RPM	6,800					
Quantity in Package	n/a		2/pk			6/pk
Max. RCF	4,445 x g		4,290 x g	3,618 x g	4,032 x g	2,894 x g
Tube Specifications						
Tube Type	Round Bottom	Conical Bottom	Round Bottom/ Vacutainer®	RIA/Vacutainer®/ Sarstedt®	Vacutainer®/ Sarstedt®	Microtube
Tube Volume	15 ml		7 ml	5 ml	1.1-5	1.5/2.0 ml
Tubes per Rotor	8	4	8			
Max. Tube Diameter (mm)	17		13		15	11
Tube Height (mm)	107	120	95/115	62/90	65/75	42

Rotors for FRONTIER™ FC5706

Angle Rotor 6 × 50 ml	
Item No.	30130878
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 40°
Permissible Net Weight	6 x 72 g
Lowest Temperature	n/a

Accessory Specifications	n/a					
Accessory Item No.	n/a		30130891	30130892	30130893	30130894
Accessory Type	n/a		Adapter			
Max. RPM	6,000					
Quantity in Package	n/a		2/pk			
Max. RCF	4,427 x g		4,306 x g	4,145 x g	4,225 x g	4,185 x g
Tube Specifications						
Tube Type	Round Bottom	Conical Bottom	Round Bottom			Round Bottom / Conical Bottom
Tube Volume	50 ml		30 ml	16 ml	15 ml	
Tubes per Rotor	6					
Max. Tube Diameter (mm)	29		25	18	17	
Tube Height (mm)	100/120	116	100	100/105		120

Angle Rotor 12 × 15 ml	
Item No.	30130877
Rotor Capacity	12 x 15 ml
Rotor Type	Angle, 32°
Permissible Net Weight	12 x 25 g
Lowest Temperature	n/a

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130889	30130890	30130886
Accessory Type	n/a	Adapter			
Max. RPM	6,000	6,000			
Quantity in Package	n/a	2/pk			6/pk
Max. RCF	4,427 x g	4226 × g	4,265 x g	3,621 x g	3,058 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®	Microtube
Tube volume	15 ml	9-10ml	7 ml	5 ml	1.5/2.0 ml
Tubes per Rotor	12				
Max. Tube Diameter (mm)	17	16	13		11
Tube Height (mm)	121	92-107	95/115	65/90	42

Rotors for FRONTIER™ FC5706

Swing Out Rotor 6 × 5 ml	
Item No.	30130880
Rotor Capacity	6 x 5 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	6 x 40 g
Lowest Temperature	n/a

Accessory Specifications	
Accessory Item No.	30130895
Accessory Type	Bucket
Max. RPM	4,000
Quantity in Package	2/pk
Max. RCF	1,878 x g
Tube Specifications	
Tube Type	Round Bottom
Tube volume	5 ml
Tubes per Rotor	6
Max. Tube Diameter (mm)	13
Tube Height (mm)	75

Rotors for FRONTIER™ FC5515 and FC5515R

Angle Rotor 44 × 1.5/2.0 ml	
Item No.	30372717
Rotor Capacity	44 x 1.5/2.0ml
Rotor Type	Angle, 32°/55°
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	10 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	15,000		
Quantity in Package	n/a	6/pk	
Max. RCF	21,379 x g	20,625 x g	20,625 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	44		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 30 × 1.5/2.0 ml Sealable	
Item No.	30130872
Rotor Capacity	30 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	30 x 3.4 g
Lowest Temperatures	9 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	13,500		
Quantity in Package	n/a	6/pk	
Max. RCF	19,150 x g	16,933 x g	18,344 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	30		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5515 and FC5515R

Angle Rotor 12 × 5 ml FA Sealable	
Item No.	30130873
Rotor Capacity	12 x 5 ml
Rotor Type	Angle, 45°
Permissible Net Weight	12 x 9.5 g
Lowest Temperatures	7 °C

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130887	30130888
Accessory Type	n/a	Adapter		
Max. RPM	14,500			
Quantity in Package	n/a	6/pk		
Max. RCF	19,978 x g	16,452 x g	17,158 x g	17,628 x g
Tube Specifications				
Tube Type	Microtube		Cryo Tube - Flat Bottom	Cryo Tube - Round Bottom
Tube volume	5 ml	1.5/2.0 ml	1.0 ml	1.8 ml
Tubes per Rotor	12			
Max. Diameter (mm)	17	11	12.6	
Tube Height (mm)	60	42	41	48

Rotor Angle 24 x 2.0 ml Spin Column	
Item No.	83041050
Rotor Capacity	24 × 2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.8 g
Lowest Temperatures	9 °C

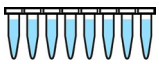
Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	13,500
Quantity in Package	n/a
Max. RCF	17,317 × g
Tube Specifications	
Tube Type	Spin Column
Tube volume	2 ml
Tubes per Rotor	24
Max. Tube Diameter (mm)	11
Tube Height (mm)	45

Rotors for FRONTIER™ FC5515 and FC5515R

Angle Rotor 24x1.5/2.0 ml BIOSEALS V2	
Item No.	30642371
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 × 3.4 g
Lowest Temperature	6 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	15,200		
Quantity in Package	n/a	6/pk	
Max. RCF	19,165 × g	19,165 × g	20,932 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 4 × 8 Place PCR Strips	
Item No.	30130874
Rotor Capacity	4 x 8 Place PCR Strips
Rotor Type	Angle, 45°
Permissible Net Weight	4 x 3.5 g
Lowest Temperatures	6 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	15,000
Quantity in Package	n/a
Max. RCF	15,343 × g
Tube Specifications	
Tube Type	8-w PCR Strip
Tube volume	02./04. ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	n/a
Tube Height (mm)	n/a

*No Adapters

Rotors for FRONTIER™ FC5515 and FC5515R

Hematocrit Rotor 24 × Capillaries	
Item No.	83041007
Rotor Capacity	24 × Capillaries
Rotor Type	Hematocrit, 90°
Permissible Net Weight	24 x 0.2 g
Lowest Temperatures	n/a

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5515)	12,000
Quantity in Package	n/a
Max. RCF (FC5515)	14,970 × g
Tube Specifications	
Tube Type	Capillaries
Tube volume	n/a
Tubes per Rotor	24
Max. Tube Diameter (mm)	1.9 mm
Tube Height (mm)	75 mm

*No Adapters

Rotors for FRONTIER™ FC5513 and FC5513R

Angle Rotor 24 × 1.5/2.0 ml BIOSEALS	
Item No.	30472302
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperature	0 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5513/FC5513R)	13,500/13,000		
Quantity in Package	n/a	6/pk	
Max. RCF	17,317/16,058 x g	15,076/ 14,169 x g	16,706/ 15,491 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 24 × 2.0 ml Spin Column	
Item No.	30210898
Rotor Capacity	24 × 2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperature	n/a

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5513)	13,500
Quantity in Package	n/a
Max. RCF (FC5513)	17,317 x g
Tube Specifications	
Tube Type	Spin Column
Tube volume	2 ml
Tubes per Rotor	24
Max. Tube Diameter (mm)	11
Tube Height (mm)	45

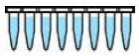
*No Adapters

Rotors for FRONTIER™ FC5513 and FC5513R

Rotor Angle 18 x 1.5/2.0 ml	
Item No.	83041006
Rotor Capacity	18 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	18 x 3.4 g
Lowest Temperature	0 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5513/FC5513R)	14,500		
Quantity in Package	n/a	6/pk	
Max. RCF	17,157 x g	14,807 x g	16,452 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Angle Rotor 4 x 8-w PCR Strip	
Item No.	83041014
Rotor Capacity	4 x 8-w PCR Strip
Rotor Type	Angle, 45°
Permissible Net Weight	4 x 3.5 g
Lowest Temperature	0°C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5513)	13,500/13,000
Quantity in Package	n/a
Max. RCF (FC5513)	17,317/13,602 x g
Tube Specifications	
Tube Type	8-w PCR Strip
Tube volume	0.2/0.4 ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	n/a
Tube Height (mm)	n/a

Rotors for FRONTIER™ FC5513 and FC5513R

Hematocrit Rotor 24 × Capillaries V2	
Item No.	30472304*
Rotor Capacity	24 × Capillaries
Rotor Type	Hematocrit, 90°
Permissible Net Weight	24 x 0.2 g
Lowest Temperature	n/a

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5513)	13,500/13,000
Quantity in Package	n/a
Max. RCF (FC5513)	16,058 x g
Tube Specifications	
Tube Type	Capillaries
Tube volume	n/a
Tubes per Rotor	24
Max. Tube Diameter (mm)	1.9 mm
Tube Height (mm)	75 mm

*No Adapters

Rotors for FRONTIER™ FC5513L

Rotor Angle 18 x 1.5/2.0 ml	
Item No.	83041006
Rotor Capacity	18 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	18 x 3.4 g
Lowest Temperature	0 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5513)	14,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5513)	15,994 x g	13,803 x g	15,337 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	

Rotors for FRONTIER™ FC5306

Angle Rotor 8 × 1.5/2.0 ml	
Item No.	30129559
Rotor Capacity	8 × 1.5/2.0 ml
Rotor Type	Angle, 40°
Permissible Net Weight	8 × 3.4 g
Lowest Temperatures	n/a

Accessory Specifications	n/a		
Accessory Item No.	n/a	30129561	30129562
Accessory Type	n/a	Adapter	
Max. RPM	6000 rpm		
Quantity in Package	1 /pk	8 /pk	
Max. RCF	2000 × g		
Tube Specifications			
Tube Type	Round Bottom/Conical Bottom		
Tube volume	1.5/2.0 ml	0.2 ml	0.5 ml
Tubes per Rotor	8		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	20	30

Angle Rotor 4 × 8 Place PCR Strips	
Item No.	30129560
Rotor Capacity	4 × 8 Place PCR Strips
Rotor Type	Angle, 40°
Permissible Net Weight	n/a
Lowest Temperatures	n/a

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	6,000 rpm
Quantity in Package	n/a
Max. RCF	2000 × g
Tube Specifications	
Tube Type	PCR Strips
Tube volume	0.2 ml
Tubes per Rotor	32
Max. Tube Diameter (mm)	6
Tube Height (mm)	20

FRONTIER™ 5000
Rotor Guide

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