



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	General purpose Models	IVD Models	General purpose Models "Green Coolant"	Voltage	Speed Range	Temp. Range	Max. g-force	Max. Capacity		Product Dimensions/ Weight
								Swing out rotor:	Angle rotor:	
FC5917RF Under Bench	83041511	83041588	83042056	230V	200 - 16,010 rpm	-20°C to 40°C	26,361 x g	Swing out rotor:	4 x 1000 ml	620 x 690 x 700 mm 157 kg
								Angle rotor:	6 x 250 ml	
FC5917RF	83041510	83041587	83042055	230V	200 - 16,010 rpm	-20°C to 40°C	26,361 x g	Swing out rotor:	4 x 1000 ml	620 x 690 x 980 mm 190 kg
								Angle rotor:	6 x 250 ml	
FC5916	30553036	83041574	-	230V	200 - 16,000 rpm	Air Cooled	24,325 x g	Swing out rotor:	4 x 750 ml	544 x 651 x 371 mm 85 kg
	30553037	83041575	-	120V				Angle rotor:	4 x 500 ml	
FC5916R	30553101	83041576	83042049	230V	200 - 16,000 rpm	-20°C to 40°C	26,328 x g	Swing out rotor:	4 x 750 ml	728 x 667 x 370 mm 118 kg
	30553103	83041577	83042050	120V				Angle rotor:	4 x 500 ml	
FC5830R	83041047	83041584	83042053	230V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	721 x 516 x 412 mm 91 kg
	83041048	83041585	83042054	120V				Angle rotor:	6 x 250 ml	
FC5816	30314816	83041563	-	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	438 x 537 x 354 mm 52 kg
	30314817	83041564	-	120V				Angle rotor:	6 x 250 ml	
FC5816R	30314818	83041565	83042047	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	721 x 537 x 354 mm 77 kg
	30314819	83041566	83042048	120V				Angle rotor:	6 x 250 ml	
FC5720R	83041045	83041582	83042051	230V	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 61 kg
	83041046	83041583	83042052	120V				Angle rotor:	6 x 85 ml	
FC5718	30314812	83041559	-	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	400 x 498 x 352 mm 43 kg
	30314813	83041560	-	120V				Angle rotor:	6 x 85 ml	
FC5718R	30314814	83041561	83042045	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	400 x 730 x 360 mm 60 kg
	30314815	83041562	83042046	120V				Angle rotor:	6 x 85 ml	
FC5714	30314810	83041557	-	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	355 x 492 x 330 mm 30 kg
	30314811	83041558	-	120V				Angle rotor:	30 x 15 ml	
FC5707	30393189	83041573	-	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 351 x 231 mm 11 kg
	83041073	83041586	-					Angle rotor:	4 x 50 ml	
FC5706P	31060778	31012112	-	100-240V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	4 x 10 ml	323 x 427 x 271 mm 14.2 kg
								Angle rotor:	6 x 50 ml	
FC5515	30130866	83041547	-	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	280 x 393 x 287 mm 16 kg
	30130867	83041548	-	120V				Angle rotor:	44 x 1.5/2.0 ml	
FC5515R	30130868	83041549	83042057	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	280 x 555 x 287 mm 35 kg
	30130869	83041550	83042058	120V				Angle rotor:	44 x 1.5/2.0 ml	
FC5513	30393187	83041571	-	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 351 x 231 mm 12.6 kg
	30393188	83041572	-	120V				Angle rotor:	24 x 1.5/2.0 ml	
FC5513R	83041041	83041578	83042059	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	280 x 555 x 287 mm 33 kg
	83041042	83041579	83042060	120V				Angle rotor:	24 x 1.5/2.0 ml	
FC5513L	83041043	83041580	-	230V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 351 x 231 mm 14 kg
	83041044	83041581	-	120V				Angle rotor:	18 x 1.5/2.0 ml	
FC5306	30129567	-	-	100-240V	6,000 rpm	Air Cooled	2,000 x g	Tube Bank Rotor:	-	150 x 168 x 128 mm 1.1 kg
								Angle rotor:	8 x 1.5/2.0 ml	

* "Green Coolant" = new refrigerant R290

All Frontier™ Series Multi Pro, Micro and Multi models are available in an IVD-compliant version (beside of FC5306): Compliance with In Vitro Diagnostic Medical Devices Regulation (EU) 2017/746, class A.

Centrifuge features

Features	FC5513	FC5513R	FC5513L	FC5515	FC5515R	FC5706P	FC5707	FC5714	FC5718	FC5718R	FC5720R	FC5816	FC5816R	FC5830R	FC5916	FC5916R	FC5917RF/ Under Bench
Brushless induction drive	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●
Microprocessor control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Imbalance switch-off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Motor driven lid lock				●	●				●	●	●	●	●	●	●	●	●
Automatic RFID rotor identification with overspeed protection								●	●	●	●	●	●	●	●	●	●
Bioseal Rotors	●	●		●	●			●	●	●	●	●	●		●	●	●
Acoustic signals, e.g. during operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Emergency release	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Stainless steel chamber		●			●			●	●	●	●	●	●	●	●	●	●
Air cooling	●		●	●		●	●	●	●			●			●		
Standstill cooling		●			●					●	●		●	●		●	●

Display Functions	FC5513	FC5513R	FC5513L	FC5515	FC5515R	FC5706P	FC5707	FC5714	FC5718	FC5718R	FC5720R	FC5816	FC5816R	FC5830R	FC5916	FC5916R	FC5917RF/ Under Bench
Diagnostic program	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Program memory for 99 programs	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Quick key for short runs	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pre-cooling program		●			●					●	●		●	●		●	●
10 acceleration and deceleration profiles, unbraked stop possible	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Display of setpoint and actual value	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Preselection of speed or RCF in increments of 10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Run-time preselection from 10 s to 99 h 59 min, as well as continuous run function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Simple operation via central potentiometer				●	●			●	●	●	●	●	●	●	●	●	●
Operating panel with touch function	●	●	●			●	●										

BIOSEAL stands for aerosol tight. Download the certificate from our website.


Rotor Compatibility Table

















item No.	Description	FC5513	FC5513R	FC5513L	FC5515	FC5515R	FC5706P	FC5707+R05	FC5707+R09	FC5714	FC5718 and FC5718R	FC5720R	FC5816 and FC5816R	FC5830R	FC5916 and FC5916R	FC5917RF and under bench
30130872	Angle Rotor 30 x 1.5/2.0ml Sealable				●	●										
30130873	Angle Rotor 12 x 5ml FA Sealable				●	●										
30130874	Angle Rotor 4 x 8-Place PCR Strip				●	●										
30130877	Angle Rotor 12 x 15ml						●									
30130878	Angle Rotor 6 x 50ml						●									
30130880	Swing out rotor for 6 x 5ml						●									
30210898	Angle Rotor 24 x 2.0ml Spin Column	●														
30304361	Angle Rotor 24 x 1.5/2.0ml ID BIOSEALS											●				
30314820	Swing out Rotor 4 x 290ml ID												●	●		
30314821	Angle Rotor 6 x 250ml FB ID												●	●	●	●
30314822	Swing out Rotor 4 x 145ml ID									●	●	●				
30314823	Swing out Rotor 4 x 100ml ID									●	●					
30314824	Swing out Rotor 2 x 3MTP w/ bucket ID									●	●	●	●	●	●	
30314825	Angle Rotor 6 x 85ml RB ID Hi										●	●				
30314826	Angle Rotor 6 x 85ml RB ID										●	●	●	●	●	
30314827	Angle Rotor 4 x 85ml RB ID Hi										●	●	●	●	●	●
30314828	Swing out Rotor 4 x 250ml ID												●			
30314829	Angle Rotor 10 x 50ml FA ID										●	●	●	●	●	●
30314830	Angle Rotor 6 x 50ml RB/FA ID									●	●	●				
30314831	Angle Rotor 6 x 50ml RB ID Hi										●	●	●	●	●	
30314832	Angle Rotor 30 x 15ml RB/FA ID									●	●	●	●	●		
30314833	Angle Rotor 20 x 10ml RB ID Hi										●	●	●	●	●	
30314834	Angle Rotor 12 x 15ml RB/FA ID									●	●	●				
30314836	Angle Rotor 30 x 1.5/2.0ml ID									●	●	●		●	●	
30314839	Angle Rotor 12 x 1.5/2.0ml ID										●			●		
30314841	Angle Rotor 4 x 8-Place PCR Stripes ID										●	●			●	
30372717	Angle Rotor 44 x 1.5/2.0ml V1				●	●										
30372718	Angle Rotor 44 x 1.5/2.0ml ID V1										●	●	●		●	
30472302	Angle Rotor 24 x 1.5/2.0ml BIOSEALS V1	●	●													
30472304	Hematocrit Rotor 24 x Capillaries V1	●														
30472305	Angle Rotor 8 x 15ml RB or 4 x 15 ml FA							●								
30553085	Swing out Rotor 4 x 750ml ID														●	●
30553086	Angle Rotor 4 x 500ml ID														●	●
30642371	Angle Rotor 24 x 1.5/2.0ml BIOSEALS V2				●	●										
31013397	Swing out Rotor 4 x 10ml						●									
83041006	Angle Rotor 18 x 1.5/2.0ml		●	●												
83041007	Hematocrit Rotor 24 x Capillaries V2				●											
83041009	Angle Rotor 4 x 50 ml or 15 ml RB/FA								●							
83041010	Angle Rotor 12 x 5ml FA ID									●	●					
83041011	Swing out Rotor 4 x 200ml ID									●	●	●				
83041014	Angle Rotor 4 x 8-Place PCR Stripes V1	●	●													
83041050	Angle Rotor 24 x 2.0ml Spin Column V1				●	●										
83041238	Angle Rotor 24 x 1.5/2.0ml ID BIOSEALS V1									●	●	●	●		●	
83041499	Angle Rotor 18 x 1.5/2.0ml						●									
83041512	Swing out Rotor 4 x 1000ml ID															●



















Number of tubes







Tube/Bottle type	FC5513	FC5513R	FC5513L	FC5515	FC5515R	FC5706P	FC5707+R05	FC5707+R09	FC5714	FC5718 and FC5718R	FC5720R	FC5816 and FC5816R	FC5830R	FC5916 and FC5916R	FC5917RF and under bench
Rotor options	4	3	1	7	6	5	1	1	10	19	17	12	11	13	6
Flat Bottom 1000 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Flat Bottom 750 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
Conical Bottom Corning® 500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
Conical Bottom Corning® 250 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
Flat Bottom 250 ml	-	-	-	-	-	-	-	-	-	-	-	6	6	6	8
Round Bottom 100 ml	-	-	-	-	-	-	-	-	4	4	4	4	4	12	12
Conical Bottom 50 ml	-	-	-	-	-	6	-	4	8	10	10	16	12	28	40
Round bottom 50 ml	-	-	-	-	-	6	-	4	6	6	6	12	12	28	40
Conical Bottom 15 ml	-	-	-	-	-	12	4	4	20	20	20	40	28	68	96
Blood Tube Ø13 mm	-	-	-	-	-	12	8	-	32	32	32	56	40	108	192
Blood Tube Ø16 mm	-	-	-	-	-	12	8	4	28	28	28	48	32	72	152
Microtube 1.5 / 2.0 ml	24	24	18	44	44	12	8	-	30	44	44	44	30	44	96
Spin Column Tubes	24	24	-	24	24	-	-	-	-	-	-	-	-	-	-
Microtube 5ml	-	-	-	12	12	-	-	-	12	12	-	-	-	-	-
Cryo Tubes	-	-	-	12	12	-	-	-	12	12	-	-	-	-	-
Hematocrit	Y	Y	-	Y	-	-	-	-	-	-	-	-	-	-	-
Microtiter plates (MTP)	-	-	-	-	-	-	-	-	6	6	6	6	6	12	28
Deep well plates (DWP)	-	-	-	-	-	-	-	-	2	2	2	2	2	4	4
8-place PCR strips	4	4	-	4	4	-	-	-	-	4	4	-	-	4	-

Rotors for FRONTIER™ FC5917RF and FC5917RF Under Bench

	Swing Out Rotor 4 × 1000 ml	
	Item No.	83041512
	Rotor Capacity	4 x 1000 ml
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	See User Manual
Lowest Temp. at max. speed	9 °C with 83041513, 4 °C with 83041518; 7 °C with 83041521, 8 °C with 83041523	

















Accessory Specifications									
Accessory Item No.	83041513*	30553122*	30553123	83041514	30553124	30553125	83041515	30553126	30553127
Accessory Type	Bucket	Lid assembly	Spare O-ring	Rack					
Max. RPM	4,600 rpm								
Quantity in Package	2p/k		10p/k	2p/k					
Max. RCF	5,204 x g	n/a		5,086 x g	5,204 x g	5,086 x g	5,109 x g	5,157 x g	5,086 x g
Tube Specifications		n/a							
Tube Type	Flat Bottom	n/a		Flat Bottom	Conical Bottom Corning®	Flat Bottom	Conical Bottom Corning®	Conical Bottom Falcon®	Round Bottom
Tube volume	1000 ml	n/a		500 ml		250 ml	250 ml	175/225 ml	100 ml
Tubes per Rotor	4	n/a		4				12	
Max. Tube Diameter (mm)	98	n/a		69.6	97	62	60	61	41
Tube Height (mm)	173/178	n/a		165	148	122/137	159	118/137	102/123









Accessory Specifications										
Accessory Item No.	30553131	30553128	30553129	30553132	30553135	83041516	30553136	83041517	30553140	
Accessory Type	Rack									
Max. RPM	4,600 rpm									
Quantity in Package	2p/k									
Max. RCF	5,180 x g						4,991 x g	5,156 x g	5,133 x g	
Tube Specifications										
Tube Type	Round Bottom	Conical Bottom	Skirted Conical	Round Bottom		Conical Bottom	Round Bottom		Vacutainer®/Sarstedt®	
Tube volume	50 ml			30 ml	15 ml		10 ml	5-7 ml	4-10 ml	
Tubes per Rotor	28	20		24	72	48	84	140	72	
Max. Tube Diameter (mm)	29			26	17		16	13	16	
Tube Height (mm)	102/123	116	100/120	102/123	97/120	120	70/121	65/120	75/100	

Accessory Specifications			
Accessory Item No.	30553139	30559377	83041040
Accessory Type	Rack		
Max. RPM	4,600 rpm		
Quantity in Package	2/pk		
Max. RCF	5,133 x g	5,109 x g	5,085 x g
Tube Specifications			
Tube Type	Vacutainer®/Sarstedt®		Microtube
Tube volume	1.8-7 ml		1.5/2.0 ml
Tubes per Rotor	108		96
Max. Tube Diameter (mm)	13		11
Tube Height (mm)	65/100		42

* 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™ FC5917RF and FC5917RF Under Bench

















Accessory Specifications									
Accessory Item No.	83041518	83041519	83041482	30553124 [▲]	83041483	83041484 ^{▲▲}	83041485	83041486	83041487
Accessory Type	Bucket	Holder	Rack						
Max. RPM	4,200 rpm								
Quantity in Package	2p/k								
Max. RCF	3,964 xg	n/a	3,865 xg		3,885 xg	3,865 xg		3,944 xg	
Tube Specifications	n/a	n/a							
Tube Type	Microplate	n/a	Flat Bottom	Conical Bottom Corning®	Flat Bottom	Conical Bottom	Round Bottom		Conical Bottom
Tube volume	n/a	n/a	500 ml		250-290 ml	175-225 ml	100 ml	50 ml	
Tubes per Rotor	28 Standard Microplates or 4 Deepwell Plates	n/a	4		8	4	12	40	
Max. Tube Diameter (mm)	87 x 128	n/a	98	97	61		40	29	
Tube Height (mm)	80	n/a	114	148	122/137	118/137	102/123	90/120	116

Accessory Specifications				
Accessory Item No.	83041488	83041489	83041490	83041491
Accessory Type	Rack			
Max. RPM	4,200 rpm			
Quantity in Package	2/pk			
Max. RCF	3,944 xg			
Tube Specifications				
Tube Type	Conical Bottom		Vacutainer®/Sarstedt®	
Tube volume	15 ml		5 ml	5.5-12 ml
Tubes per Rotor	96		152	192
Max. Tube Diameter (mm)	17		17	16
Tube Height (mm)	120		60/70	60/120

















[▲]30553124 Can be used only with 83041482
















^{▲▲}83041484 Can be used only with 83041483



Accessory Specifications	
Swing Out Rotor 4 x 750 ml	
Item No.	30553085
Rotor Capacity	4 x 750 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 995 g
Lowest Temp. at max. speed	4 °C, however -3 °C when using 30602502

Accessory Specifications									
Accessory Item No.	30602502*	30553122*	30553123	30553124	30553125	30772866	30553126	30553127	30553128
Accessory Type	Bucket	Lid assembly	Spare O-ring	Rack					
Max. RPM	4,500 rpm								
Quantity in Package	2p/k		10p/k	2p/k					
Max. RCF	4,346 xg	n/a		4,324 xg	4,278 xg	4,369 xg	4,324 xg		
Tube Specifications		n/a							
Tube Type	Flat Bottom - Herolab®	n/a		Conical Bottom Corning®	Flat Bottom	Conical Bottom Corning®	Conical Bottom Falcon®	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

Rotors for FRONTIER™ FC5917RF and FC5917RF Under Bench

Accessory Specifications								
Accessory Item No.	30553129	30553130	30553131	30553132	30553133	30553134	30553135	30553136
Accessory Type	Rack							
Max. RPM	4,500 rpm							
Quantity in Package	2p/k							
Max. RCF	4,324 × g		4,324 × g		4,346 × g	4,301 × g	4,256 × g	
Tube Specifications								
Tube Type	Skirted Conical Bottom	Conical Bottom	Round Bottom		Conical Bottom		Round Bottom	
Tube volume	50 ml			30 ml	15 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

Accessory Specifications									
Accessory Item No.	30553138	83041591	30553139	30553140	30559377	83041040	30553104	30553105	30553117*
Accessory Type	Rack						Bucket	Holder	Lid assembly
Max. RPM	4,500 rpm								
Quantity in Package	2p/k								
Max. RCF	4,233 × g			4,301 × g	4,256 × g		3,961 × g	n/a	
Tube Specifications							n/a		
Tube Type	Round Bottom	Vacutainer®	Vacutainer® / Sarstedt®		Sarstedt®	Microtube	Microplate	n/a	
Tube volume	7 ml	8 ml	1.8-7 ml	4-10 ml	1.1-1.4 ml	1.5/2.0 ml	n/a		
Tubes per Rotor	128	72	108	72	152	96	12 Standard Microplates or 4 Deepwell Plates	n/a	
Max. Tube Diameter (mm)	13	16	13	16	8	11	87 × 128	n/a	
Tube Height (mm)	98/119	125	65/100	75/100	66	42	80	n/a	

Accessory Specifications		
Accessory Item No.	30553118	30553119
Accessory Type	Spare O-ring	Bucket
Max. RPM	4,500 rpm	
Quantity in Package	10/pk	2/pk
Max. RCF	n/a	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
83041625 Package Cell Culture for 750ml Bucket

Rotors for FRONTIER™ FC5917RF and FC5917RF Under Bench



Angle Rotor 4 x 500 ml	
Item No.	30553086
Rotor Capacity	4 x 500 ml
Rotor Type	Angle, 24°
Permissible Net Weight	4 x 708 g
Lowest Temp. at max. speed	-1°C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30559416	30559417	30559419	30559420	30559421	30559422	30564850
Accessory Type	n/a	Adapter						
Max. RPM	8,000 rpm							
Quantity in Package	n/a	2p/k						
Max. RCF	10,374 x g	9014 x g	9,587 x g	8,871 x g	10,231 x g	9,873 x g		9,801 x 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 x 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temp. at max. speed	-3°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	8,000 rpm								
Quantity in Package	n/a	2p/k							
Max. RCF	10,016 x g	10,016 x g	9,444 x g	9,515 x g	9,301 x g	8,943 x g	8,585 x g	8,371 x g	9,444 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		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™ FC5917RF and FC5917RF Under Bench



Angle Rotor 4 x 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temp. at max. speed	-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	16,010 rpm							
Quantity in Package	n/a	2p/k						
Max. RCF	26,361 x g	24,355 x g	24,069 x g	25,501 x g	24,642 x g	23,782 x g	21,490 x g	23,782 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 10 x 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temp. at max. speed	1°C

















Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM	10,500 rpm					
Quantity in Package	n/a	6/pk	2p/k			
Max. RCF	16,022 x g	10,229 g	14,050 x g	12,078 x g	15,652 x g	15,775 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

Rotors for FRONTIER™ FC5916 and FC5916R


















Swing Out Rotor 4 x 750 ml ID	
Item No.	30553085
Rotor Capacity	4 x 750 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 995 g
Lowest Temp. at max. speed	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	Spare 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 x g	n/a		3,416 / 4,324 x g	3,380 / 4,278 x g	3,452 / 4,369 x g	3,416/4,324 x g		
Tube Specifications		n/a							
Tube Type	Flat Bottom - Herolab®	n/a		Conical Bottom Corning®	Flat Bottom	Conical Bottom Corning®	Conical Bottom Falcon®	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/FC5916R)	3,416/4,324 x g			3,416 / 4,324 x g	3,434 / 4,346 x g	3,398 / 4,301 x g	3,363/4,256 x 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		

* 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. 83041625 Package Cell Culture for 750ml Bucket available. For more info check our website.

Rotors for FRONTIER™ FC5916 and FC5916R

Accessory Specifications									
Accessory Item No.	30553138	83041591	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®	Vacutainer® / Sarstedt®		Sarstedt®	Microtube	Microplate	n/a	
Tube volume	7 ml	8 ml	1.8-7 ml	4- 10 ml	1.1-1.4 ml	1.5/2.0 ml	n/a		
Tubes per Rotor	128	72	108	72	152	96	12 Standard Microplates or 4 Deepwell Plates	n/a	
Max. Tube Diameter (mm)	13	16	13	16	8	11	87 × 128	n/a	
Tube Height (mm)	98/119	125	65/100	75/100	66	42	80	n/a	

Accessory Specifications		
Accessory Item No.	30553118	30553119
Accessory Type	Spare 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. 83041625 Package Cell Culture for 750ml Bucket available. For more info check our website.

Rotors for FRONTIER™ FC5916 and FC5916R



Angle Rotor 4 x 500 ml	
Item No.	30553086
Rotor Capacity	4 x 500 ml
Rotor Type	Angle, 24°
Permissible Net Weight	4 x 708 g
Lowest Temp. at max. speed	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							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5916/FC5916R)	10,374 x g	9014 x g	9,587 x g	8,871 x g	10,231 x g	9,873 x g		9,801 x 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 x 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temp. at max. speed	-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								
Quantity in Package	n/a	2 /pk							
Max. RCF (FC5916/FC5916R)	10,016 x g	10,016 x g	9,444 x g	9,515 x g	9,301 x g	8,943 x g	8,585 x g	8,371 x g	9,444 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

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 Temp. at max. speed	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 Temp. at max. speed	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)	14,532 / 16,022 × g	9,278 / 10,229 × g	12,774 / 14,050 × g	10,955 / 12,078 × g	14,197 / 15,652 × g	14,309 / 15,775 × 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	65/75	97/123	120
















*Only possible with adapter 30472300

Rotors for FRONTIER™ FC5916 and FC5916R

	Swing Out Rotor 2 × 3 MTP (Buckets included)	
	Item No.	30314824
	Rotor Capacity	2 × 3 MTP
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	2 × 310 g
	Lowest Temp. at max. speed	-15 °C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	Adapter
Max. RPM (FC5916/FC5916R)	4,500	
Quantity in Package	2/pk	
Max. RCF	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 Temp. at max. speed	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 x 50 ml	
Item No.	30314831
Rotor Capacity	6 x 50 ml
Rotor Type	Angle, 26°
Permissible Net Weight	6 x 94 g
Lowest Temp. at max. speed	-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				
Quantity in Package	n/a	2/pk			
Max. RCF (FC5916/FC5916R)	15,869 x g	14,649 x g	13,777 x g	13,951 x g	13,428 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









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


Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5916/FC5916R)	12,000
Quantity in Package	n/a
Max. RCF (FC5916/FC5916R)	15,775 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™ 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 Temp. at max. speed	-3 °C






Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5916/FC5916R)	24,325 × g	23,466 × g	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	
	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 Temp. at max. speed	-3 °C

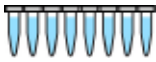
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	15,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5916/FC5916R)	23,643 × g	21,361 × g	19,719 × g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml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

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 Temp. at max. speed	-5 °C	


Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5916/FC5916R)	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	


















	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 Temp. at max. speed	-2 °C	


Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5916/FC5916R)	15,000
Quantity in Package	n/a
Max. RCF (FC5916/FC5916R)	15,343 × 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 × 250 ml
	Rotor Type	Angle, 28°
	Permissible Net Weight	6 × 355 g
Lowest Temp. at max. speed	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 × 290 ml
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	4 × 533 g
Lowest Temp. at max. speed	-20 °C	

Accessory Specifications							
Accessory Item No.	30314901	30314902	83041037	30314903	30314904	30314905	30304367
Accessory Type	Screw Cap	Spare 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

[▲]Racks fits directly in the rotor. No bucket needed.
83041627 Package Cell Culture available. For more info check our website.

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	83041590	30314916	30314917
Accessory Type	Rack						
Max. RPM	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®	Round Bottom	Vacutainer®/Sarstedt®
Tube Volume	15 ml	15 ml		10 ml	8 ml	5-7 ml	1.6-7 ml
Tubes per Rotor	36	28		32	36	56	40
Max. Tube Diameter (mm)	17	17		16	16	13	
Tube Height (mm)	76/115	95/120	100/120	80/100	125	65/120	65/100












*Only possible with Rack 30314903

Image	Angle Rotor 6 × 85 ml	
	Item No.	30314826
	Rotor Capacity	6 × 85ml
	Rotor Type	Angle, 38°
	Permissible Net Weight	6 × 140 g
	Lowest Temp. at max. speed	-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 Temp. at max. speed	-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	16,022 x g	10,229 x g	14,050 x g	12,078 x g	12,078 x g	15,775 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	65/75	97/123	120

*Only possible with adapter 30472300

	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 Temp. at max. speed	-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 Glass Tubes or 20 Conical Tubes	30	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92-107	40	95/115	65/75

Rotors for FRONTIER™ FC5830R



Swing Out Rotor 2 x 3 MTP (Buckets included)	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temp. at max. speed	n/a

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	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 x 85 ml	
Item No.	30314827
Rotor Capacity	4 x 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 x 140 g
Lowest Temp. at max. speed	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, 26°
	Permissible Net Weight	6 x 94 g
	Lowest Temp. at max. speed	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 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 Temp. at max. speed	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

Rotors for FRONTIER™ FC5830R


	Angle Rotor 30 × 1.5/2.0 ml	
	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 Temp. at max. speed	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 Temp. at max. speed	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	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 Temp. at max. speed	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 (FC5816/FC5816R)	8,000								
Quantity in Package	n/a	2 /pk							
Max. RCF (FC5816/FC5816R)	10,016 × g	10,016 × g	9,444 × g	9,515 × g	9,301 × g	8,943 × g	8,585 × g	8,371 × g	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 Temp. at max. speed	1 °C















Accessory Specifications									
Accessory Item No.	30314901	30314902	83041037	30314903	30314904	30314905	30304367	30304368*	
Accessory Type	Screw Cap	Spare O-ring	Bucket	Rack [▲]			Rack [▲]	Adapter	
Max. RPM (FC5816/FC5816R)	4,500								
Quantity in Package	2/pk	10/pk	2/pk						
Max. RCF (FC5816/FC5816R)	n/a		3,645 × g	3,554 × g	3,599 × g	3,689 × g	3,689 × g	3,554 × 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













▲Racks fits directly in the rotor. No bucket needed.

83041627 Package Cell Culture available. For more info check our website.















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						
Quantity in Package	2/pk						
Max. RCF (FC5816/FC5816R)	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

[▲]Racks fits directly in the rotor. No bucket needed.


Accessory Specifications						
Accessory Item No.	30314913	30314914	30314915	83041590	30314916	30314917
Accessory Type	Rack [▲]					
Max. RPM (FC5816/FC5816R)	4,500					
Quantity in Package	2/pk					
Max. RCF (FC5816/FC5816R)	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®	Round Bottom	Vacutainer®/ Sarstedt®
Tube Volume	15 ml		10 ml	8 ml	5-7 ml	1.6-7 ml
Tubes per Rotor	28		32	36	56	40
Max. Tube Diameter (mm)	17		16		13	
Tube Height (mm)	95/120	100/120	80/100	125	65/120	65/100
















[▲]Racks fits directly in the rotor. No bucket needed.


Accessory Specifications							
Accessory Item No.	83041039	30304375	30314583	83041592	30314584	30314585	83041038
Accessory Type	Rack						
Max. RPM (FC5816/FC5816R)	4,500						
Quantity in Package	2/pk						
Max. RCF (FC5816/FC5816R)	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®	Vacutainer® / Sarstedt®		Sarstedt®
Tube Volume	250 ml	50 ml	15 ml	8 ml	5-7 ml	4-10 ml	1.1-5 ml
Tubes per Rotor	4	16	40	24	56	48	72
Max. Tube Diameter (mm)	62	29	17	16	13	16	11
Tube Height (mm)	122	116	120	125	75/100		92












Accessory Specifications							
Accessory Item No.	83041039	30304375	30314583	83041592	30314584	30314585	83041038
Accessory Type	Rack						
Max. RPM (FC5816/FC5816R)	4,500						
Quantity in Package	2/pk						
Max. RCF (FC5816/FC5816R)	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®	Vacutainer® / Sarstedt®		Sarstedt®
Tube Volume	250 ml	50 ml	15 ml	8 ml	5-7 ml	4-10 ml	1.1-5 ml
Tubes per Rotor	4	16	40	24	56	48	72
Max. Tube Diameter (mm)	62	29	17	16	13	16	11
Tube Height (mm)	122	116	120	125	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 Temp. at max. speed	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 (FC5816/FC5816R)	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 Temp. at max. speed	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)	11,771 / 16,022 x g	7,515 / 10,229 x g	10,322 / 14,050 x g	8,874 / 12,078 x g	11,499 / 15,652 x g	11,590 / 15,775 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	65/75	97/123	120

*Only possible with adapter 30472300

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 Temp. at max. speed	-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 (FC5816/FC5816R)	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 Glass Tubes or 20 Conical Tubes	30	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92/107	40	95/115	65/75


















Swing Out Rotor 2 × 3 MTP (Buckets included)	
Item No.	30314824
Rotor Capacity	2 x 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 x 310 g
Lowest Temp. at max. speed	-3 °C


Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	Adapter
Max. RPM (FC5816/FC5816R)	4,500	
Quantity in Package	2/pk	
Max. RCF (FC5816/FC5816R)	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 Temp. at max. speed	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							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5816/FC5816R)	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 Temp. at max. speed	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				
Quantity in Package	n/a	2/pk			
Max. RCF (FC5816/FC5816R)	15,869 x g	14,649 x g	13,777 x g	13,951 x g	13,428 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™ 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 Temp. at max. speed	0 °C

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5816/FC5816R)	12,000
Quantity in Package	n/a
Max. RCF (FC5816/FC5816R)	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

	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 Temp. at max. speed	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 × g	20,625/23,466 × 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 Temp. at max. speed	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 Temp. at max. speed	-8 °C

Accessory Specifications							
Accessory Item No.	83041013*	83041012*	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	Spare 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	83041593	83041028	83041029	83041030	83041031
Accessory Type	Rack						Bucket
Max. RPM	5,000						
Quantity in Package	2/pk						
Max. RCF	4,136 x g	4,080 x g	4,080 x g		4,110 x g		4,136 x g
Tube Specifications							
Tube Type	Conical Bottom	Round Bottom/ Vacutainer®	Vacutainer®	Round Bottom/ Vacutainer®	Conical Bottom	Microtube	Conical Bottom
Tube Volume	15 ml		8 ml	7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	4	32	20	32	8
Max. Tube Diameter (mm)	17		16	13	17	11	29
Tube Height (mm)	120	60/107	125	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 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 Temp. at max. speed	-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	

All racks fits directly in the rotor.
83041631 Package Cell Culture available. For more info check our website.

Rotors for FRONTIER™ FC5720R



Angle Rotor 6 x 85 ml	
Item No.	30314825
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 25°
Permissible Net Weight	6 x 140 g
Lowest Temp. at max. speed	4 °C

Accessory Specifications	n/a											
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	83041032 [▲]	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	12,715 / 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	25 ml	50ml	15ml	15 ml	16 ml	
Tubes per Rotor	6									12	6	
Max. Tube Diameter (mm)	38	17	25	29		17	29	29	17		18	
Tube Height (mm)	113	103/110	90/103	105	116	120	82	118	120	95/100	103/110	

▲Only possible with Adapter 30304375



Angle Rotor 6 x 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85ml
Rotor Type	Angle, 38°
Permissible Net Weight	6 x 140 g
Lowest Temp. at max. speed	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 x 50 ml	
Item No.	30314829
Rotor Capacity	10 x 50 ml
Rotor Type	Angle, 38°
Permissible Net Weight	10 x 76 g
Lowest Temp. at max. speed	-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	11,771 x g	7,515 x g	10,322 x g	8,874 x g	11,499 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	65/75	97/123	120

*Only possible with adapter 30472300



Angle Rotor 30 x 15 ml	
Item No.	30314832
Rotor Capacity	30 x 15 ml
Rotor Type	Angle, 35°
Permissible Net Weight	30 x 32 g
Lowest Temp. at max. speed	-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 Glass Tubes or 20 Conical Tubes	30	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92-107	40	95/115	65/75

Rotors for FRONTIER™ FC5720R



Swing Out Rotor 2 × 3 MTP (Buckets included)	
Item No.	30314824
Rotor Capacity	2 × 3 MTP
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	2 × 310 g
Lowest Temp. at max. speed	-14°C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	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 × 85 ml
Rotor Type	Angle, 30°
Permissible Net Weight	4 × 140 g
Lowest Temp. at max. speed	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 x 50 ml	
	Item No.	30314830
	Rotor Capacity	6 x 50 ml
	Rotor Type	Angle, 40°
	Permissible Net Weight	6 x 72 g
Lowest Temp. at max. speed	-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 x 50 ml	
	Item No.	30314831
	Rotor Capacity	6 x 50 ml
	Rotor Type	Angle, 26°
	Permissible Net Weight	6 x 94 g
Lowest Temp. at max. speed	-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 rotor 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 Temp. at max. speed	-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









Rotor Angle 12 × 15 ml RB/FA ID	
Item No.	30314834
Rotor Capacity	12 x 15 ml
Rotor Type	Angle, 32°
Permissible Net Weight	12 x 25 g
Lowest Temp. at max. speed	-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	4,427 x g	4,427 x g	4,427 x g
Tube Specifications				
Tube Type	Round Bottom	Microtube	Round Bottom/Vacutainer®/Sarstedt	Round Bottom/Vacutainer®/Sarstedt
Tube Volume	10 ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	16	11	13	
Tube Height (mm)	120	42	115	75

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 Temp. at max. speed	-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	
	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 Temp. at max. speed	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 Temp. at max. speed	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	

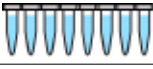


Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temp. at max. speed	-1 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	16,000		
Quantity in Package	n/a	6/pk	
Max. RCF	24,325 x g	21,463 x g	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

	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 Temp. at max. speed	-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 Temp. at max. speed	6 °C

Accessory Specifications							
Accessory Item No.	83041013*	83041012*	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	Spare O-Ring	Rack		
Max. RPM (FC5718/FC5718R)	5,000						
Quantity in Package	2/pk			10/pk	2/pk		
Max. RCF (FC5718/FC5718R)	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 (FC5718/FC5718R)	5,000						
Quantity in Package	2/pk						
Max. RCF (FC5718/FC5718R)	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	83041593	83041028	83041029	83041030	83041031
Accessory Type	Rack						Bucket
Max. RPM (FC5718/FC5718R)	5,000						
Quantity in Package	2/pk						
Max. RCF (FC5718/FC5718R)	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		8 ml	7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	4	32	20	32	8
Max. Tube Diameter (mm)	17		16	13	17	11	29
Tube Height (mm)	120	60/107	125	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 Temp. at max. speed	-2 °C	

Accessory Specifications								
Accessory Item No.	83041035	30314842	30314843	30314844	30314845	30314846	30314847	30314848
Accessory Type	Rack							
Max. RPM (FC5718/FC5718R)	4,500							
Quantity in Package	2/pk							
Max. RCF (FC5718/FC5718R)	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	90/118	116		95/105

Accessory Specifications								
Accessory Item No.	30314849	30314850	30314851	30314852	30314853	30314854	30314855	
Accessory Type	Rack							
Max. RPM (FC5718/FC5718R)	4,500							
Quantity in Package	2/pk							
Max. RCF (FC5718/FC5718R)	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	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			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					
Quantity in Package	2/pk					
Max. RCF (FC5718/FC5718R)	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		

All racks fits directly in the rotor.
83041631 Package Cell Culture available. For more info check our website.

Rotors for FRONTIER™ FC5718 and FC5718R



Angle Rotor 6 x 85 ml	
Item No.	30314826
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 38°
Permissible Net Weight	6 x 140 g
Lowest Temp. at max. speed	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								
Quantity in Package	n/a	2/pk							
Max. RCF (FC5718/FC5718R)	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 x 85 ml	
Item No.	30314825
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 25°
Permissible Net Weight	6 x 140 g
Lowest Temp. at max. speed	15 °C

Accessory Specifications	n/a										
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	83041032 [▲]	83041033	83041034	30314898	30314899
Accessory Type	n/a	Adapter									
Max. RPM	11,000/13,500										
Quantity in Package	n/a	2/pk									
Max. RCF	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	25 ml	50ml	15 ml	15 ml	16 ml
Tubes per Rotor	6									12	6
Max. Tube Diameter (mm)	38	17	25	29		17	29	29	17		18
Tube Height (mm)	113	103/110	90/103	105	116	120	82	118	120	95/100	103/110


[▲] Only possible with Adapter 30304375










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 Temp. at max. speed	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					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF (FC5718/FC5718R)	8,174 x g	5,219 x g	7,168 x g	6,192 x g	7,986 x g	8,049 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	65/75	97/123	120

*Only possible with adapter 30472300

	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 Temp. at max. speed	-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				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF (FC5718/FC5718R)	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 Glass Tubes or 20 Conical Tubes	30	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92-107	42	95/115	65/75

Rotors for FRONTIER™ FC5718 and FC5718R



Swing Out Rotor 4 x 100 ml	
Item No.	30314823
Rotor Capacity	4 x 100 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 x 465 g
Lowest Temp. at max. speed	2 °C

Accessory Specifications							
Accessory Item No.	30314860*	30314861	30314862	30314863	30314864	30314865	30314866
Accessory Type	Bucket		Screw Cap	Spare O-Ring	Rack		
Max. RPM (FC5718/FC5718R)	5,000						
Quantity in Package	2/pk		10/pk	2/pk			
Max. RCF (FC5718/FC5718R)	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						
Quantity in Package	2/pk						
Max. RCF (FC5718/FC5718R)	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	




*Only without bucket lid

Accessory Specifications								
Accessory Item No.	30314874	30314875	83041589	30314876	30314877	30314878	30314879	30314880
Accessory Type	Rack							
Max. RPM (FC5718/FC5718R)	5,000							
Qty in Package	2/pk							
Max. RCF (FC5718/FC5718R)	3,725 x g		2,611 x g	3,725 x g				
Tube Specifications								
Tube Type	Skirted Conical Bottom	Round Bottom	Vacutainer®	Round Bottom	Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		8 ml	5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	4	28	20	12	16	
Max. Tube Diameter (mm)	17		16	13	11	17	13	16
Tube Height (mm)	120	90/108	125	75/100	42	85/100	75/100	

Rotors for FRONTIER™ FC5718 and FC5718R

Accessory Specifications	 30314881	 30314882
Accessory Item No.	30314881	30314882
Accessory Type	Bucket	
Max. RPM (FC5718/FC5718R)	5,000	
Quantity in Package	2/pk	
Max. RCF (FC5718/FC5718R)	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

	Swing Out Rotor 2 x 3 MTP (Buckets included)	
Item No.	30314824	
Rotor Capacity	2 x 3 MTP	
Rotor Type	Swing Out, 0-90°	
Permissible Net Weight	2 x 310 g	
Lowest Temp. at max. speed	-5 °C	

Accessory Specifications	 30314890	 30314891
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	Adapter
Max. RPM (FC5718/FC5718R)	4,500	
Quantity in Package	2/pk	
Max. RCF (FC5718/FC5718R)	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 Temp. at max. speed	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							
Quantity in Package	n/a	2/pk						
Max. RCF (FC5718/FC5718R)	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 Temp. at max. speed	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				
Quantity in Package	n/a	2/pk			
Max. RCF (FC5718/FC5718R)	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 x 50 ml	
	Item No.	30314830
	Rotor Capacity	6 x 50 ml
	Rotor Type	Angle, 40°
	Permissible Net Weight	6 x 72 g
Lowest Temp. at max. speed	-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							
Quantity in Package	n/a	6/pk	2/pk					
Max. RCF (FC5718/FC5718R)	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	17
Tube Height (mm)	100/120	116	42	95/100	65/75	100	100/105	120


*Only possible with adapter 30130894






	Angle Rotor 20 x 10 ml	
	Item No.	30314833
	Rotor Capacity	20 x 10 ml
	Rotor Type	Angle, 30°
	Permissible Net Weight	20 x 18 g
Lowest Temp. at max. speed	4 °C	

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5718/FC5718R)	12,000
Quantity in Package	n/a
Max. RCF (FC5718/FC5718R)	15,775 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


Rotors for FRONTIER™ FC5718 and FC5718R








		Rotor Angle 12 × 15 ml RB/FA ID			
		Item No.	30314834		
		Rotor Capacity	12 x 15 ml		
		Rotor Type	Angle, 32°		
		Permissible Net Weight	12 x 25 g		
		Lowest Temp. at max. speed	-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				
Quantity in Package	n/a	6/pk	2/pk		
Max. RCF (FC5718/FC5718R)	4,427 x g	4,427 x g	4,427 x g	4,427 x g	
Tube Specifications					
Tube Type	Round Bottom	Microtube	Round Bottom/Vacutainer®/Sarstedt	Round Bottom/Vacutainer®/Sarstedt	
Tube Volume	10 ml	1.5/2.0 ml	7 ml	5 ml	
Tubes per Rotor	12				
Max. Tube Diameter (mm)	16	11	13		
Tube Height (mm)	120	42	115	75	

		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 Temp. at max. speed	3 °C		


		Accessory Specifications			
		n/a			
Accessory Item No.	n/a	30130884	30130885		
Accessory Type	n/a	Adapter			
Max. RPM (FC718/FC5718R)	15,000				
Quantity in Package	n/a	6/pk			
Max. RCF (FC5718/FC5718R)	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			






Rotors for FRONTIER™ FC5718 and FC5718R

	Angle Rotor 12 × 5 ml FA	
	Item No.	83041010
	Rotor Capacity	12 x 5 ml
	Rotor Type	Angle, 45°
	Permissible Net Weight	12 x 9.5 g
Lowest Temp. at max. speed	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






*Only snap-cap tubes, not applicable to screw-cap tubes


	Angle Rotor 30 × 1.5/2.0 ml	
	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 Temp. at max. speed	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 Temp. at max. speed	3 °C	

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5718/FC5718R)	15,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5718/FC5718R)	21,379 x g	20,625 x g	18,864 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 Temp. at max. speed	-2 °C	

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130885	30130884
Accessory Type	n/a	Adapter	
Max. RPM (FC5718/FC5718R)	18,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5718/FC5718R)	23,542 x g	20,282 x g	22,818 x g
Tube Specifications			
Tube Type	Microtube		
Tube Volume	1.5/2.0 ml	0.5 ml	0.2/0.4 ml
Tubes per Rotor	12		
Max. Tube Diameter (mm)	11	8	6
Tube Height (mm)	40	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 Temp. at max. speed	2 °C
Accessory Specifications	n/a	
Accessory Item No.	n/a	
Accessory Type	n/a	
Max. RPM (FC5718/FC5718R)	15,000	
Quantity in Package	n/a	
Max. RCF (FC5718/FC5718R)	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 Temp. at max. speed	-8 °C

Accessory Specifications							
Accessory Item No.	83041013*	83041012*	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	Spare 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	83041593	83041028	83041029	83041030	83041031
Accessory Type	Rack						Bucket
Max. RPM	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		8 ml	7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	4	32	20	32	8
Max. Tube Diameter (mm)	17		16	13	17	11	29
Tube Height (mm)	120	60/107	125	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 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 Temp. at max. speed	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	

All racks fits directly in the rotor.

83041631 Package Cell Culture available. For more info check our website.

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 Temp. at max. speed	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	2,038 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 Glass Tubes or 20 Conical Tubes	30	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92-107	42	95/115	65/75

















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

















Accessory Specifications							
Accessory Item No.	30314860*	30314861*	30314862	30314863	30314864	30314865	30314866
Accessory Type	Bucket		Screw Cap	Spare 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






*Must use rack - 30314864 when using 100mL tubes

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	




*Only without bucket lid


Accessory Specifications								
Accessory Item No.	30314874*	30314875	83041589	30314876	30314877	30314878	30314879	30314880
Accessory Type	Rack							
Max. RPM	4,000							
Quantity in Package	2/pk							
Max. RCF	2,383 x g		2,611 x g	2,383 x g				
Tube Specifications								
Tube Type	Skirted Conical Bottom	Round Bottom	Vacutainer®	Round Bottom	Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		8 ml	5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	4	28	20	12	16	
Max. Tube Diameter (mm)	17		16	13	11	17	13	16
Tube Height (mm)	120	90/108	125	75/100	42	85/100	75/100	














Accessory Specifications			
Accessory Item No.	30314881	30314882	83041589
Accessory Type	Bucket		Rack
Max. RPM	4,000		4,000
Quantity in Package	2/pk		
Max. RCF	2,486 x g		2,611 x g
Tube Specifications			n/a
Tube Type	Conical Bottom		Vacutainer®
Tube volume	50 ml	15 ml	8 ml
Tubes per Rotor	8	12	4
Max. Tube Diameter (mm)	29	17	16
Tube Height (mm)	116	120	125

Rotors for FRONTIER™ FC5714

	Swing Out Rotor 2 × 3 MTP (Buckets included)	
	Item No.	30314824
	Rotor Capacity	2 × 3 MTP
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	2 × 310 g
Lowest Temp. at max. speed	n/a	









Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket (included)	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 × 50 ml
	Rotor Type	Angle, 40°
	Permissible Net Weight	6 × 72 g
Lowest Temp. at max. speed	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	65/75	100	100/105	97/120


* only possible with adapter 30130894








Rotors for FRONTIER™ FC5714

Rotor Angle 12 × 15 ml RB/FA ID				
	Item No.	30314834		
	Rotor Capacity	12 x 15 ml		
	Rotor Type	Angle, 32°		
	Permissible Net Weight	12 x 25 g		
	Lowest Temp. at max. speed	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	4,427 x g	4,427 x g	4,427 x g
Tube Specifications				
Tube Type	Round Bottom/Conical Bottom	Microtube	Round Bottom/Vacutainer®/Sarstedt	Round Bottom/Vacutainer®/Sarstedt
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	115	75


Angle Rotor 30 × 1.5/2.0 ml				
	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 Temp. at max. speed	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	
	Item No.	83041010*
	Rotor Capacity	12 x 5 ml
	Rotor Type	Angle, 45°
	Permissible Net Weight	12 x 9.5 g
Lowest Temp. at max. speed	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



*Only snap-cap tubes, not applicable to screw-cap tubes.


	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 Temp. at max. speed	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 Temp. at max. speed	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 x 15 ml(Round bottom tube) 4 x 15 ml(Conical bottom tube)
	Rotor Type	Angle, 32°
	Permissible Net Weight	8 x 25 g
Lowest Temp. at max. speed	n/a	

Accessory Specifications	n/a	n/a	n/a				
Accessory Item No.	n/a	n/a	n/a	30130889	30130890	83041036	30130886
Accessory Type	n/a	n/a	n/a	Adapter			
Max. RPM	6,800						
Quantity in Package	n/a	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	Vacutainer®	Round Bottom*	Conical Bottom	Vacutainer®/ Sarstedt®	RIA/Vacutainer®/ Sarstedt®	Vacutainer®/ Sarstedt®	Microtube
Tube Volume	6-10 ml	15 ml		7 ml	5 ml	1.1-5	1.5/2.0 ml
Tubes per Rotor	8		4	8			
Max. Tube Diameter (mm)	16	17		13		15	11
Tube Height (mm)	100	107	120	95/115	65/75	65/75	42

*Not applicable to screw-cap round bottom tubes.

Rotors for FRONTIER™ FC5706P



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 Temp. at max. speed	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	65/75	100	100/105	97/120

* only possible with adapter 30130894






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 Temp. at max. speed	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	4,226 x 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	65/75	42

Rotors for FRONTIER™ FC5706P

	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 Temp. at max. speed	n/a

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






	Rotor Swing Out 4 × 10 ml	
	Item No.	31013397
	Rotor Capacity	4 × 10 ml
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	148 g
	Lowest Temp. at max. speed	n/a

Accessory Specifications	
Accessory Item No.	31021231
Accessory Type	Rack (included)
Max. RPM	4,200
Quantity in Package	4
Max. RCF	2,406 × g
Tube Specifications	
Tube Type	Round Bottom/ Vacutainer®/ Sarstedt®
Tube volume	1.8-10 ml
Tubes per Rotor	4
Max. Tube Diameter (mm)	16
Tube Height (mm)	102


Rotors for FRONTIER™ FC5706P









Rotor Angle 18 × 1.5/2.0 ml	
Item No.	83041499
Rotor Capacity	1.5 / 2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	61 g
Lowest Temp. at max. speed	n/a






Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	6,000		
Quantity in Package	n/a	6/pk	
Max. RCF	2,938 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	18		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	18/45	30

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 Temp. at max. speed	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	21,127 x g / 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	
	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 Temp. at max. speed	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	
Item No.	30130873
Rotor Capacity	12 × 5 ml
Rotor Type	Angle, 45°
Permissible Net Weight	12 × 9.5 g
Lowest Temp. at max. speed	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 × 3.8 g
Lowest Temp. at max. speed	9 °C

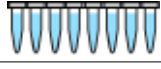
Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	13,500
Quantity in Package	n/a
Max. RCF	17,317 × g
Tube Specifications	
Tube Type	Spin Column
Tube volume	2 ml
Tubes per Rotor	24
Max. Tube Diameter (mm)	11
Tube Height (mm)	45

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 Temp. at max. speed	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 Temp. at max. speed	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 Temp. at max. speed	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 × 3.4 g
	Lowest Temp. at max. speed	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 × 3.4 g
	Lowest Temp. at max. speed	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 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	18 x 3.4 g
Lowest Temp. at max. speed	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 Temp. at max. speed	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 Temp. at max. speed	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 x 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	18 x 3.4 g
Lowest Temp. at max. speed	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 Temp. at max. speed	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 Temp. at max. speed	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	n/a		
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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