



























# Rotors for FRONTIER™ FC5720R



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

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

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

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

All racks are used with bucket 83041012 / 83041013

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

\*\*Only without Bucket Screw Cap

# Rotors for FRONTIER™ FC5720R



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

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

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

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

# Rotors for FRONTIER™ FC5720R



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

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



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

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

# Rotors for FRONTIER™ FC5720R



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

Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM	9,000					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF	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 Temperatures	-8 °C

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM	4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g / 2,354 x g	2,038 x g	2,762 x g	2,377 x g
Tube Specifications					
Tube Type	Round Bottom/Conical Bottom	Vacutainer® / Sarstedt®	Microtube	Round Bottom/Vacutainer®	RIA/Vacutainer®/Sarstedt®
Tube Volume	15 ml	9-10ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	30	20	30	20	
Max. Tube Diameter (mm)	17	16	11	13	
Tube Height (mm)	95/120	92-107	40	95/115	65/75

# Rotors for FRONTIER™ FC5720R


















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 Temperature	-14°C

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



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

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

\*Only without rotor lid

# Rotors for FRONTIER™ FC5720R



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

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

\* only possible with adapter 30130894



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


Accessory Specifications	n/a				
Accessory Item No.	n/a	30130891	30130892	30130893	30130892*
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 x 10 ml	
Item No.	30314833
Rotor Capacity	20 x 10 ml
Rotor Type	Angle, 30°
Permissible Net Weight	20 x 18 g
Lowest Temperatures	-1 °C

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

\*No Adapters








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

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130889	30130890
Accessory Type	n/a	Adapter		
Max. RPM	6,000			
Quantity in Package	n/a	6/pk	2/pk	
Max. RCF	4,427 x g	3,059 x g	4,266 x g	3,662 x g
Tube Specifications				
Tube Type	Round Bottom / Conical Bottom	Microtube	Round Bottom/Vacutainer®	Round Bottom
Tube Volume	15 ml	1.5/2.0 ml	7 ml	5 ml
Tubes per Rotor	12			
Max. Tube Diameter (mm)	17	11	13	
Tube Height (mm)	120	42	95/115	65/75

# Rotors for FRONTIER™ FC5720R








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

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



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






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



# Rotors for FRONTIER™ FC5720R








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

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



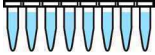
Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 x 3.4 g
Lowest Temperatures	-1 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM	16,000		
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 Temperatures	-7 °C

<b>Accessory Specifications</b>	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
<b>Tube Specifications</b>	
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