



Offering Flexibility to Maximize Sample Preparation

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

Ingeniously Practical

FRONTIER™5000 Series

Powerful and Versatile Centrifuges for Virtually Every Lab Application

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





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Specifications

Model	Item No.	Voltage	Speed Range	Temp. Range	Max. g-force	Max. Capacity		Product Dimensions/Weight	Shipping Dimensions/Weight																																																																																																																																																																																																																																																
FC5917RF	83041510	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	930 x 780 x 1260 mm 225 kg																																																																																																																																																																																																																																																
						Angle rotor:	6 x 250 ml			FC5917RF Under Bench	83041510	230V	200 - 16,010 rpm	-20°C to 40°C	26,361 x g	Swing out rotor:	4 x 100 ml	620 x 690 x 980 mm 190 kg	930 x 780 x 930 mm 183 kg	Angle rotor:	6 x 250 ml	FC5916	30553036	230V	200 - 16,000 rpm	Air Cooled	24,325 x g	Swing out rotor:	4 x 750 ml	540 x 670 x 390 mm 85 kg	780 x 670 x 590 mm 98 kg	30553037	120V	Angle rotor:	4 x 500 ml	FC5916R	30553101	230V	200 - 16,000 rpm	-20°C to 40°C	26,331 x g	Swing out rotor:	4 x 750 ml	730 x 670 x 390 mm 118 kg	900 x 670 x 560 mm 137 kg	30553103	120V	Angle rotor:	4 x 500 ml	FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg	83041048	120V	Angle rotor:	6 x 250 ml	FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg	30314817	120V	Angle rotor:	6 x 250 ml	FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled
FC5917RF Under Bench	83041510	230V	200 - 16,010 rpm	-20°C to 40°C	26,361 x g	Swing out rotor:	4 x 100 ml	620 x 690 x 980 mm 190 kg	930 x 780 x 930 mm 183 kg																																																																																																																																																																																																																																																
						Angle rotor:	6 x 250 ml			FC5916	30553036	230V	200 - 16,000 rpm	Air Cooled	24,325 x g	Swing out rotor:	4 x 750 ml	540 x 670 x 390 mm 85 kg	780 x 670 x 590 mm 98 kg	30553037	120V	Angle rotor:	4 x 500 ml	FC5916R	30553101	230V	200 - 16,000 rpm	-20°C to 40°C	26,331 x g	Swing out rotor:	4 x 750 ml	730 x 670 x 390 mm 118 kg	900 x 670 x 560 mm 137 kg	30553103	120V	Angle rotor:	4 x 500 ml	FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg	83041048	120V	Angle rotor:	6 x 250 ml	FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg	30314817	120V	Angle rotor:	6 x 250 ml	FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml				
FC5916	30553036	230V	200 - 16,000 rpm	Air Cooled	24,325 x g	Swing out rotor:	4 x 750 ml	540 x 670 x 390 mm 85 kg	780 x 670 x 590 mm 98 kg																																																																																																																																																																																																																																																
	30553037	120V				Angle rotor:	4 x 500 ml			FC5916R	30553101	230V	200 - 16,000 rpm	-20°C to 40°C	26,331 x g	Swing out rotor:	4 x 750 ml	730 x 670 x 390 mm 118 kg	900 x 670 x 560 mm 137 kg	30553103	120V	Angle rotor:	4 x 500 ml	FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg	83041048	120V	Angle rotor:	6 x 250 ml	FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg	30314817	120V	Angle rotor:	6 x 250 ml	FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																		
FC5916R	30553101	230V	200 - 16,000 rpm	-20°C to 40°C	26,331 x g	Swing out rotor:	4 x 750 ml	730 x 670 x 390 mm 118 kg	900 x 670 x 560 mm 137 kg																																																																																																																																																																																																																																																
	30553103	120V				Angle rotor:	4 x 500 ml			FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg	83041048	120V	Angle rotor:	6 x 250 ml	FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg	30314817	120V	Angle rotor:	6 x 250 ml	FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																
FC5830R	83041047	230 V	200 - 30,000 rpm	-20°C to 40°C	65,395 x g	Swing out rotor:	4 x 290 ml	723 x 519 x 413 mm 91 kg	840 x 640 x 590 mm 101 kg																																																																																																																																																																																																																																																
	83041048	120V				Angle rotor:	6 x 250 ml			FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg	30314817	120V	Angle rotor:	6 x 250 ml	FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																														
FC5816	30314816	230V	200 - 15,000 rpm	Air Cooled	21,379 x g	Swing out rotor:	4 x 290 ml	530 x 440 x 350 mm 52 kg	670 x 550 x 530 mm 56 kg																																																																																																																																																																																																																																																
	30314817	120V				Angle rotor:	6 x 250 ml			FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg	30314819	120V	Angle rotor:	6 x 250 ml	FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																												
FC5816R	30314818	230V	200 - 16,000 rpm	-20°C to 40°C	24,325 x g	Swing out rotor:	4 x 290 ml	670 x 550 x 530 mm 56 kg	840 x 640 x 590 mm 87 kg																																																																																																																																																																																																																																																
	30314819	120V				Angle rotor:	6 x 250 ml			FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg	83041046	120V	Angle rotor:	6 x 85 ml	FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																										
FC5720R	83041045	230 V	200 - 20,000 rpm	-20°C to 40°C	38,007 x g	Swing out rotor:	4 x 200 ml	407 x 712 x 361 mm 71 kg	840 x 640 x 590 mm 83 kg																																																																																																																																																																																																																																																
	83041046	120V				Angle rotor:	6 x 85 ml			FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg	30314813	120V	Angle rotor:	6 x 85 ml	FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																								
FC5718	30314812	230V	200 - 18,000 rpm	Air Cooled	23,542 x g	Swing out rotor:	4 x 200 ml	490 x 400 x 490 mm 43 kg	650 x 490 x 520 mm 53 kg																																																																																																																																																																																																																																																
	30314813	120V				Angle rotor:	6 x 85 ml			FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg	30314815	120V	Angle rotor:	6 x 85 ml	FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																						
FC5718R	30314814	230V	200 - 18,000 rpm	-20°C to 40°C	23,542 x g	Swing out rotor:	4 x 200 ml	730 x 400 x 350 mm 60 kg	840 x 640 x 590 mm 77 kg																																																																																																																																																																																																																																																
	30314815	120V				Angle rotor:	6 x 85 ml			FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg	30314811	120V	Angle rotor:	30 x 15 ml	FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																				
FC5714	30314810	230V	200 - 14,000 rpm	Air Cooled	18,624 x g	Swing out rotor:	4 x 200 ml	490 x 360 x 330 mm 30 kg	580 x 490 x 280 mm 32.5 kg																																																																																																																																																																																																																																																
	30314811	120V				Angle rotor:	30 x 15 ml			FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg	83041073	Angle rotor:	4 x 50 ml	FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																		
FC5707*	30393189	100-230V	200 - 6,800 rpm	Air Cooled	4,445 x g	Swing out rotor:	-	277 x 356 x 236 mm 11.5 kg	370 x 470 x 340 mm 13 kg																																																																																																																																																																																																																																																
	83041073					Angle rotor:	4 x 50 ml			FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg	30130876	120V	Angle rotor:	6 x 50 ml	FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																															
FC5706	30130875	230V	200 - 6,000 rpm	Air Cooled	4,427 x g	Swing out rotor:	6 x 5 ml	291 x 392 x 266 mm 10.5 kg	400 x 545 x 410 mm 15 kg																																																																																																																																																																																																																																																
	30130876	120V				Angle rotor:	6 x 50 ml			FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg	30130867	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																													
FC5515	30130866	230V	200 - 15,200 rpm	Air Cooled	21,953 x g	Swing out rotor:	-	287 x 393 x 292 mm 17 kg	400 x 545 x 410 mm 20 kg																																																																																																																																																																																																																																																
	30130867	120V				Angle rotor:	44 x 1.5/2.0 ml			FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg	30130869	120V	Angle rotor:	44 x 1.5/2.0 ml	FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																											
FC5515R	30130868	230V	200 - 15,200 rpm	-20°C to 40°C	21,953 x g	Swing out rotor:	-	287 x 561 x 292 mm 35 kg	400 x 660 x 520 mm 44 kg																																																																																																																																																																																																																																																
	30130869	120V				Angle rotor:	44 x 1.5/2.0 ml			FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg	30393188	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																																									
FC5513	30393187	230V	200 - 13,500 rpm	Air Cooled	17,317 x g	Swing out rotor:	-	277 x 356 x 236 mm 12.6 kg	370 x 470 x 340 mm 14.0 kg																																																																																																																																																																																																																																																
	30393188	120V				Angle rotor:	24 x 1.5/2.0 ml			FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg	83041042	120V	Angle rotor:	24 x 1.5/2.0 ml	FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																																																							
FC5513R	83041041	230 V	200 - 14,500 rpm	-20°C to 40°C	17,157 x g	Swing out rotor:	-	287 x 555 x 286 mm 33 kg	400 x 660 x 520 mm 38 kg																																																																																																																																																																																																																																																
	83041042	120V				Angle rotor:	24 x 1.5/2.0 ml			FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg	83041044	120V	Angle rotor:	18 x 1.5/2.0 ml	FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																																																																					
FC5513L*	83041043	230 V	200 - 14,000 rpm	Air Cooled	15,994 x g	Swing out rotor:	-	277 x 356 x 236 mm 13.5 kg	370 x 470 x 340 mm 15.5 kg																																																																																																																																																																																																																																																
	83041044	120V				Angle rotor:	18 x 1.5/2.0 ml			FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg	30134157 (US)	Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																																																																																			
FC5306*	30134156 (EU)	100-240V	6,000 rpm	Air Cooled	2,000 x g	Swing out rotor:	-	150 x 168 x 128 mm 1.1 kg	216 x 305 x 194 mm 1.9 kg																																																																																																																																																																																																																																																
	30134157 (US)					Angle rotor:	8 x 1.5/2.0 ml																																																																																																																																																																																																																																																		

* 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

Centrifuge features

Features	FC5706	FC5707	FC5513	FC5513R	FC5515	FC5515R	FC5714	FC5718	FC5718R	FC5816	FC5816R	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	●	●	●		●		●	●		●		●		
CFC-free refrigeration (-20°C to +40°C)				●		●			●		●		●	●
Standstill cooling				●		●			●		●		●	●

Display Functions	FC5706	FC5707	FC5513	FC5513R	FC5515	FC5515R	FC5714	FC5718	FC5718R	FC5816	FC5816R	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		●	●	●										

Rotors for FRONTIER™ FC5917RF and FC5917RF Under Bench



Swing Out Rotor 4 x 1000 ml	
Item No.	83041512
Rotor Capacity	4 x 1000 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	See User Manual
Lowest Temperatures	9 °C with 83041513, 4 °C with 83041518

















Accessory Specifications									
Accessory Item No.	83041513*	30553122	30553123	83041514	30553124	30553125	83041515	30553126	30553127
Accessory Type	Bucket	Lid assembly	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	Conical Bottom Corning®	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 × 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	2.6-8 ml
Tubes per Rotor	96		152	192
Max. Tube Diameter (mm)	17	17	16	13
Tube Height (mm)	120	60/70	60/120	65/100














▲ 30553124 Can be used only with 83041482 ▲▲ 83041484 Can be used only with 83041483















Swing Out Rotor 4 × 750 ml	
Item No.	30553085
Rotor Capacity	4 x 750 ml
Rotor Type	Swing Out, 0-90°
Permissible Net Weight	4 × 995 g
Lowest Temperatures	4 °C, however -3 °C when using 30602502



Accessory Specifications									
Accessory Item No.	30602502*	30553122*	30553123*	30553124	30553124	30553125	30553126	30553127	30553128
Accessory Type	Bucket	Lid assembly	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	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	

*All racks are used with bucket 30602502 only

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

Accessory Specifications		
Accessory Item No.	30553118	30553119
Accessory Type	O-ring	Bucket
Max. RPM	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 x 128
Tube Height (mm)	n/a	72

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

Rotors for FRONTIER™ 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 Temperatures	-1°C

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559416	30559417	30559419	30559420	30559422	30304373	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 Temperatures	-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 Temperatures	-2°C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896*	30314897*	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM	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 Temperatures	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 or 30472307

Rotors for FRONTIER™ FC5916 and FC5916R



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














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



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

*All racks are used with bucket 30602502 only

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

Rotors for FRONTIER™ FC5916 and FC5916R

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

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

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

Rotors for FRONTIER™ FC5916 and FC5916R



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

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



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

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559414	30304369	30304370	30304371	30304372	30304373	30304374	30559412
Accessory Type	n/a	Adapter							
Max. RPM (FC5916/FC5916R)	8,000								
Quantity in Package	n/a	2 /pk							
Max. RCF (FC5916/FC5916R)	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

Rotors for FRONTIER™ FC5916 and FC5916R



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

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







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


Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM (FC5916/FC5916R)	10,000/10,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF (FC5916/FC5916R)	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 or 30472307

Rotors for FRONTIER™ FC5916 and FC5916R

	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 Temperature	-15 °C


Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	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 Temperatures	4 °C

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


*Only without rotor lid


Rotors for FRONTIER™ FC5916 and FC5916R

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

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







*Only without rotor lid







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

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


*No Adapters






Rotors for FRONTIER™ FC5916 and FC5916R


Angle Rotor 44 × 1.5/2.0 ml			
	Item No.	30372718	
	Rotor Capacity	44 x 1.5/2.0 ml	
	Rotor Type	Angle, 32°/55°	
	Permissible Net Weight	44 x 3.4 g	
	Lowest Temperatures	-3 °C	
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000		
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	

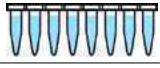
Angle Rotor 30 × 1.5/2.0 ml			
	Item No.	30314836	
	Rotor Capacity	30 x 1.5/2.0 ml	
	Rotor Type	Angle, 45°	
	Permissible Net Weight	30 x 3.4 g	
	Lowest Temperature	-3 °C	
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	15,000		
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 Temperatures	-5 °C

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5916/FC5916R)	16,000		
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 Temperatures	-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 x 250 ml	
Item No.	30314821
Rotor Capacity	6 x 250 ml
Rotor Type	Angle, 28°
Permissible Net Weight	6 x 355 g
Lowest Temperatures	1 °C

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



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

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

Rotors for FRONTIER™ FC5830R

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

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

*Only possible with Rack 30314903

	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	-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 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	-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 or 30472307






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	-20 °C

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

Rotors for FRONTIER™ FC5830R


















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 Temperature	n/a

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



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

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

*Only without rotor lid

Rotors for FRONTIER™ FC5830R



Angle Rotor 6 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	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 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	6 °C






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

*No Adapters

Rotors for FRONTIER™ FC5830R










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

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



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

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

Rotors for FRONTIER™ FC5816 and FC5816R



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

Accessory Specifications	n/a								
Accessory Item No.	n/a	30559414	30304369	30304370	30304371	30304372	30304373	30304374	30559412
Accessory Type	n/a	Adapter							
Max. RPM (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 Temperatures	1 °C

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

*Only possible with Rack 30314903













Rotors for FRONTIER™ FC5816 and FC5816R

Accessory Specifications							
Accessory Item No.	30314906	30314907	30314908	30314909	30314910	30314911	30314912
Accessory Type	Rack						
Max. RPM (FC5816/FC5816R)	4,500						
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

Accessory Specifications					
Accessory Item No.	30314913	30314914	30314915	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®/Sarstedt®
Tube Volume	15 ml		10 ml	5-7 ml	1.6-7 ml
Tubes per Rotor	28		32	56	40
Max. Tube Diameter (mm)	17		16	13	
Tube Height (mm)	95/120	100/120	80/100	65/120	65/100



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

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

Rotors for FRONTIER™ FC5816 and FC5816R



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

Accessory Specifications	n/a							
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899
Accessory Type	n/a	Adapter						
Max. RPM (FC5816/FC5816R)	11,000/13,000							
Quantity in Package	n/a	2/pk						
Max. RCF (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 Temperatures	9 °C


Accessory Specifications	n/a					
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30472300	30472307
Accessory Type	n/a	Adapter				
Max. RPM (FC5816/FC5816R)	9,000/10,500					
Quantity in Package	n/a	6/pk	2/pk			
Max. RCF (FC5816/FC5816R)	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 or 30472307

Rotors for FRONTIER™ FC5816 and FC5816R

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

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM (FC5816/FC5816R)	4,500/4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF (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	20	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 × 3 MTP
	Rotor Type	Swing Out, 0-90°
	Permissible Net Weight	2 × 310 g
	Lowest Temperatures	-3 °C

Accessory Specifications		
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	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 × 128	11
Tube Height (mm)	63	42

Rotors for FRONTIER™ FC5816 and FC5816R



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

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5816/FC5816R)		15,000/16,000	
Quantity in Package	n/a	6/pk	
Max. RCF (FC5816/FC5816R)	21,379/24,325 x g	20,625/23,466 x g	18,864/21,463 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™ FC5816 and FC5816R



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

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

Rotors for FRONTIER™ FC5720R



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

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

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

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

All racks are used with bucket 83041012 / 83041013

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

**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5720R



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

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

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

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

Rotors for FRONTIER™ FC5720R



Angle Rotor 6 × 85 ml	
Item No.	30314825
Rotor Capacity	6 x 85 ml
Rotor Type	Angle, 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 × 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 or 30472307






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 × 50 ml							
		Item No.	30314830						
		Rotor Capacity	6 x 50 ml						
		Rotor Type	Angle, 40°						
		Permissible Net Weight	6 x 72 g						
		Lowest Temperature	-18 °C						
Accessory Specifications		n/a							
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30130891	30130892	30130894		
Accessory Type	n/a	Adapter							
Max. RPM	6,000								
Quantity in Package	n/a	6/pk	2/pk						
Max. RCF	4,427 x g	2,696 x g	4,105 x g	3,340 x g	4,306 x g	4,145 x g	4,266 x g		
Tube Specifications									
Tube Type	Round Bottom	Conical Bottom	Microtube	Round Bottom/ Vacutainer®	RIA/Vacutainer® /Sarstedt®	Round Bottom/Vacutainer®		Round Bottom/ Conical Bottom	
Tube volume	50 ml		1.5/2.0 ml	7 ml	5 ml	30 ml	16 ml	15 ml	
Tubes per Rotor	6								
Max. Tube Diameter (mm)	29		11	13		25	18	17	
Tube Height (mm)	100/120	116	42	95/100	65/75	100	100/105	97/120	

* only possible with adapter 30130894


		Angle Rotor 6 × 50 ml					
		Item No.	30314831				
		Rotor Capacity	6 x 50 ml				
		Rotor Type	Angle, 26°				
		Permissible Net Weight	6 x 94 g				
		Lowest Temperatures	-3 °C				
Accessory Specifications		n/a					
Accessory Item No.	n/a	30130891	30130892	30130893	30130894		
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 x 1.5/2.0 ml
Rotor Type	Angle, 32°/55°
Permissible Net Weight	44 x 3.4 g
Lowest Temperatures	-6 °C

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








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

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

Rotors for FRONTIER™ FC5720R








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

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




Angle Rotor 24 × 1.5/2.0 ml ID BIOSEALS	
Item No.	83041238
Rotor Capacity	24 × 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

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















*No Adapters













Rotors for FRONTIER™ FC5718 and FC5718R



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

Accessory Specifications							
Accessory Item No.	83041013*	83041012	83041005*	83041015	83041016	83041017	83041018
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM (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	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		7 ml	5 ml	1.5/2.0 ml	50 ml
Tubes per Rotor	12	28	32	20	32	8
Max. Tube Diameter (mm)	17		13	17	11	29
Tube Height (mm)	120	60/107	65/100	60/70	42	116

All racks are used with bucket 83041012 / 83041013

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

**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5718 and FC5718R



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

Accessory Specifications								
Accessory Item No.	83041035	30314842	30314843	30314844	30314845	30314846	30314847	30314848
Accessory Type	Rack							
Max. RPM (FC5718/FC5718R)	4,500							
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	

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 Temperatures	1 °C

Accessory Specifications	n/a								
Accessory Item No.	n/a	30314893	30314894	30314895	30314896	30314897	30314898	30314899	
Accessory Type	n/a	Adapter							
Max. RPM (FC5718/FC5718R)	9,000								
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 Temperatures	15 °C

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

Rotors for FRONTIER™ FC5718 and FC5718R



Angle Rotor 10 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	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 or 30472307



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	-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	20	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 Temperatures	2 °C

Accessory Specifications							
Accessory Item No.	30314860*	30314861*	30314862	30314863	30314864	30314865	30314866
Accessory Type	Bucket		Screw Cap	O-Ring	Rack		
Max. RPM (FC5718/FC5718R)	5,000						
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	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						
Tube Specifications							
Tube Type	Skirted Conical Bottom	Round Bottom		Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	28	20	12	16	
Max. Tube Diameter (mm)	17		13	11	17	13	16
Tube Height (mm)	120	90/108		75/100	42	85/100	75/100

Rotors for FRONTIER™ FC5718 and FC5718R

Accessory Specifications	 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 × 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 Temperatures	-5 °C	

Accessory Specifications	 30314890	 30314891
Accessory Item No.	30314890	30314891
Accessory Type	Bucket	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 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	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 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	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 × 50 ml	
	Item No.	30314830
	Rotor Capacity	6 x 50 ml
	Rotor Type	Angle, 40°
	Permissible Net Weight	6 x 72 g
	Lowest Temperatures	-6 °C

Accessory Specifications	n/a							
Accessory Item No.	n/a	30130886*	30130889*	30130890*	30130891	30130892	30130894	
Accessory Type	n/a	Adapter						
Max. RPM (FC5718/FC5718R)	6,000							
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 × 10 ml	
	Item No.	30314833
	Rotor Capacity	20 x 10 ml
	Rotor Type	Angle, 30°
	Permissible Net Weight	20 x 18 g
	Lowest Temperatures	4 °C


Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM (FC5718/FC5718R)	12,000
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






*No Adapters

Rotors for FRONTIER™ FC5718 and FC5718R

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

Accessory Specifications	n/a			
Accessory Item No.	n/a	30130886	30130889	30130890
Accessory Type	n/a	Adapter		
Max. RPM (FC5718/FC5718R)	6,000			
Quantity in Package	n/a	6/pk	2/pk	
Max. RCF (FC5718/FC5718R)	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








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

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (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 x 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 Temperature	2 °C

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








Angle Rotor 30 x 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 Temperatures	6 °C

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

Rotors for FRONTIER™ FC5718 and FC5718R








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

Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (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	



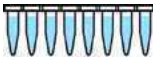
Angle Rotor 12 × 1.5/2.0 ml	
Item No.	30314839
Rotor Capacity	12 x 1.5/2.0 ml
Rotor Type	Angle, 40°
Permissible Net Weight	12 x 3.4 g
Lowest Temperatures	-2 °C

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 Temperatures	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 Temperature	-8 °C

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

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

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

All racks are used with bucket 83041012 / 83041013

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

**Only without Bucket Screw Cap

Rotors for FRONTIER™ FC5714



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

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

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

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

Rotors for FRONTIER™ FC5714



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

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130886	30130889	30130890
Accessory Type	n/a	Adapter			
Max. RPM	4,500				
Quantity in Package	n/a	2/pk	6/pk	2/pk	
Max. RCF	2,830 x g	2,716 x g	2,038 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	42	95/115	65/75

















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 Temperature	n/a















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





*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	30314876	30314877	30314878	30314879	30314880
Accessory Type	Rack						
Max. RPM	4,000						
Quantity in Package	2/pk						
Max. RCF	2,383 x g						
Tube Specifications							
Tube Type	Skirted Conical Bottom	Round Bottom		Microtube	Sarstedt®	Vacutainer®	
Tube volume	15 ml		5-7 ml	1.5 ml	10 ml	5-7 ml	10 ml
Tubes per Rotor	8	16	28	20	12	16	
Max. Tube Diameter (mm)	17		13	11	17	13	16
Tube Height (mm)	120	90/108	75/100	42	85/100	75/100	

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

Rotors for FRONTIER™ FC5714
















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	n/a

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



Angle Rotor 6 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	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



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

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











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 Temperature	n/a

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

Rotors for FRONTIER™ FC5714










Angle Rotor 12 x 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 Temperature	n/a

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





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

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

Rotors for FRONTIER™ FC5707














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

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



Angle Rotor 8 x 15 ml RB or 4 x 15 ml FA	
Item No.	30472305
Rotor Capacity	8 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 Temperature	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	Round Bottom	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

Rotors for FRONTIER™ FC5706



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

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



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

Accessory Specifications	n/a				
Accessory Item No.	n/a	30211180	30130889	30130890	30130886
Accessory Type	n/a	Adapter			
Max. RPM	6,000	6,000			
Quantity in Package	n/a	2/pk		6/pk	
Max. RCF	4,427 x g	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™ FC5706



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

Accessory Specifications



Accessory Item No.	30130895
Accessory Type	Buckets (included)
Max. RPM	4,000
Quantity in Package	2/pk
Max. RCF	1,878 x g

Tube Specifications








Tube Type	Round Bottom
Tube volume	5 ml
Tubes per Rotor	6
Max. Tube Diameter (mm)	13
Tube Height (mm)	75

Rotors for FRONTIER™ FC5515 and FC5515R








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

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










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

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

Rotors for FRONTIER™ FC5515 and FC5515R




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

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








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

Accessory Specifications	n/a
Accessory Item No.	n/a
Accessory Type	n/a
Max. RPM	13,500
Quantity in Package	n/a
Max. RCF	17,317 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

Rotors for FRONTIER™ FC5515 and FC5515R

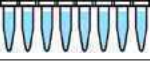


Angle Rotor 24x1.5/2.0 ml BIOSEALS V2	
Item No.	30642371
Rotor Capacity	24 × 1.5/2.0 ml
Rotor Type	Angle, 45°
Permissible Net Weight	24 × 3.4 g
Lowest Temperature	6 °C

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



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


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

*No Adapters

Rotors for FRONTIER™ FC5515 and FC5515R









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


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


*No Adapters

Rotors for FRONTIER™ FC5513 and FC5513R

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


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






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


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

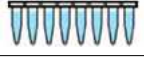
*No Adapters

Rotors for FRONTIER™ FC5513 and FC5513R

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

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


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

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

Rotors for FRONTIER™ FC5513 and FC5513R



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






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

*No Adapters

Rotors for FRONTIER™ FC5513L



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

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

Rotors for FRONTIER™ FC5306



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

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



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

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



FRONTIER™ 5000

Rotor Guide



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