



# Frontier™ 5000 Series

Multi-Pro Centrifuges



## *Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application*

Frontier 5000 Multi-Pro Centrifuges are designed for universal use in virtually every application in research, industrial & clinical laboratories. Combine with our range of rotors & accessories for customized use in specific applications. Available in 5 models with capacities from low microliter to 6 × 250 ml—and featuring high speed performance at maximum volume, automatic rotor identification system and safety features, these multi-purpose centrifuges are a must for any lab.

### *Standard Features Include:*

- **Powerful Platform Offers Maximum Flexibility for a Range of Applications**  
Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.
- **Intuitively Designed for User-Friendly Operation**  
The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications. Features include automatic rotor recognition and backlit LCD.
- **Solid Engineering Ensures Reliability and Durability**  
The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use. Constructed of chemical-resistant stainless steel to ensure durability in lab use.
- **Increased Safety With Built-in Protective Features**  
Frontier 5000 Series is equipped with protective features, including automatic over-speed protection, imbalance detection and self-diagnostic system to ensure reliable use and operator safety.

# Frontier™ 5000 Series Multi-Pro Centrifuges

## Maximum Application Flexibility

Choose from five models from small to medium capacity, speed range of 14,000–16,000 rpm and non-refrigerated/refrigerated options to suit your application. Ideal for spinning most tubes and bottles in the lab, including microtubes, blood tubes, round bottom tubes, conical tubes and microtiter plates.

### FC5714 Centrifuge (non-refrigerated)

- Compatible with up to 9 optional rotors and 77 accessories
- Capacities from microliter to 4 × 100 ml
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 1.5/2.0 ml tubes

### FC5718 (non-refrigerated) and FC5718R (refrigerated) Centrifuges

- Compatible with up to 19 optional rotors and 122 accessories
- Capacities from microliter to 4 × 100 ml
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 85 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5718R)

### FC5816 (non-refrigerated) and FC5816R (refrigerated) Centrifuges

- Compatible with up to 13 optional rotors and 71 accessories
- Capacities from microliter to 6 × 250 ml
- Improved sample processing through-put with additional rotor for blood collection tubes and standard conical tubes
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 250 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5816R)

## Intuitively Designed for Simple Operation

Frontier 5000 Series was designed to make lab processes more efficient and easier, and includes many user-friendly features & software that allow for intuitive operation.

- Automatic rotor identification makes switching between applications extremely easy
- Simple one-hand operation enabled by the selection button/rotary knob combination—even with gloves on
- Large backlit LCD display shows centrifugation settings and real-time parameters on one interface
- Program storage up to 99 runs including parameter settings and rotor types

## Solid Engineering Ensures Reliability

Manufactured with high-quality components for reliable use and German engineered for high performance. Chemical and corrosion-resistant stainless steel housing ensures durability in lab environments.

- Maintenance-free induction drive
- Thread-free rotor locking mechanism
- Optimized airflow system to keep samples cool (non-refrigerated models)
- Pre-cooling program to quickly reach desired temperature (refrigerated models)
- Chemical and corrosion-resistant stainless steel housing ensures durability in lab environments
- Self-diagnostic program to record usage and error history for easy maintenance and to minimize downtime



## Safety Features for Increased Security

These centrifuges are equipped with additional protective features for redundancy in safety and reliable operation.

- Over-speed protection, immediately upon rotor insertion
- Active imbalance-detection with individual imbalance tolerances set for each rotor
- Motorized lid-locking system to protect operators from accidental injuries
- Sealed and bio-containment rotors to safeguard operators from harmful aerosols

## Rotor Compatibility Table

FC5714	0.2/ 0.4 ml	0.5 ml	1.5/ 2.0 ml	4.5 ml	5 ml	7 ml	10 ml	15 ml	16 ml	25 ml	30 ml	50 ml	85 ml	100 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Swing out rotor, 4 × 100 ml, ID</b> Item: 30314822 Max Speed: 4500 rpm Max RCF: 3350 × g			●	●				●		●	●	●	●	●		●	●		
<b>Swing out rotor, 4 × 100 ml, ID, Sealable</b> Item: 30314823 Max Speed: 4000 rpm Max RCF: 2486 × g			●				●	●		●	●	●	●	●			●		
<b>Swing out rotor, 2 × 3 MTP, ID</b> Item: 30314824 Max Speed: 4500 rpm Max RCF: 2716 × g			▲																●
<b>Angle rotor, 6 × 50 ml, ID</b> Item: 30314830 Max Speed: 6000 rpm Max RCF: 4427 × g			▲		▲	▲		▲	▲		▲	●							
<b>Angle rotor, 30 × 15 ml, ID</b> Item: 30314832 Max Speed: 4500 rpm Max RCF: 2830 × g			▲		▲	▲		●											
<b>Angle rotor, 12 × 15 ml, ID</b> Item: 30314834 Max Speed: 6000 rpm Max RCF: 4427 × g			▲		▲	▲		●											
<b>Angle rotor, 30 × 1.5/2.0 ml, ID, Sealable</b> Item: 30314836 Max Speed: 12000 rpm Max RCF: 15131 × g	▲	▲	●																
<b>Angle rotor, 24 × 1.5/2.0 ml, ID</b> Item: 30314838 Max Speed: 14000 rpm Max RCF: 18624 × g	▲	▲	●																
<b>Angle rotor, 24 × 1.5/2.0 ml, ID, Sealable</b> Item: 30304361 Max Speed: 14000 rpm Max RCF: 18624 × g	▲	▲	●																

\*Blood collection tube  
ID: auto rotor identification  
Hi: version with higher speed

● Original size    ▲ With adapter

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FC5718/FC5718R			0.2/ 0.4 ml	0.5 ml	1.5/ 2.0 ml	4.5 ml	5 ml	7 ml	10 ml	15 ml	16 ml	25 ml	30 ml	50 ml	85 ml	100 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Swing out rotor, 4 × 100 ml, ID</b>																					
Item	30314822																				
For	FC5718	FC5718R			●	●				●		●	●	●	●	●		●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3350 × g	3350 × g																			
<b>Swing out rotor, 4 × 100 ml, ID, Sealable</b>																					
Item	30314823																				
For	FC5718	FC5718R			●				●	●		●	●	●	●	●			●		
Max Speed	5000 rpm	5000 rpm																			
Max RCF	3885 × g	3885 × g																			
<b>Swing out rotor, 2 × 3 MTP, ID</b>																					
Item	30314824																				
For	FC5718	FC5718R			▲																●
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2716 × g	2716 × g																			
<b>Angle rotor, 6 × 85 ml, ID, Hi</b>																					
Item	30314825																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	11000 rpm	13500 rpm																			
Max RCF	13932 × g	20984 × g																			
<b>Angle rotor, 6 × 85 ml, ID</b>																					
Item	30314826																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	9000 rpm	9000 rpm																			
Max RCF	10413 × g	10413 × g																			
<b>Angle rotor, 4 × 85 ml, ID, Hi</b>																					
Item	30314827																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	12000 rpm	12000 rpm																			
Max RCF	14809 × g	14809 × g																			
<b>Angle rotor, 10 × 50 ml, ID</b>																					
Item	30314829																				
For	FC5718	FC5718R			▲		▲	▲		▲				●							
Max Speed	7500 rpm	7500 rpm																			
Max RCF	8174 × g	8174 × g																			
<b>Angle rotor, 6 × 50 ml, ID</b>																					
Item	30314830																				
For	FC5718	FC5718R			▲		▲	▲		▲	▲		▲	●							
Max Speed	6000 rpm	6000 rpm																			
Max RCF	4427 × g	4427 × g																			
<b>Angle rotor, 6 × 50 ml, ID, Hi</b>																					
Item	30314831																				
For	FC5718	FC5718R								▲	▲		▲	●							
Max Speed	12000 rpm	12000 rpm																			
Max RCF	13522 × g	13522 × g																			
<b>Angle rotor, 30 × 15 ml, ID</b>																					
Item	30314832																				
For	FC5718	FC5718R			▲		▲	▲		●											
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2830 × g	2830 × g																			

\*Blood collection tube  
ID: auto rotor identification  
Hi: version with higher speed

● Original size    ▲ With adapter  
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FC5718/FC5718R			0.2/ 0.4 ml	0.5 ml	1.5/ 2.0 ml	4.5 ml	5 ml	7 ml	10 ml	15 ml	16 ml	25 ml	30 ml	50 ml	85 ml	100 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Angle rotor, 20 × 10 ml, Hi</b>																					
Item	30314833																				
For	FC5718	FC5718R																			
Max Speed	12000 rpm	12000 rpm																			
Max RCF	15775 × g	15775 × g																			
<b>Angle rotor, 12 × 15 ml, ID</b>																					
Item	30314834																				
For	FC5718	FC5718R																			
Max Speed	6000 rpm	6000 rpm																			
Max RCF	4427 × g	4427 × g																			
<b>Angle rotor, 44 × 1.5/2.0 ml, ID</b>																					
Item	30314835																				
For	FC5718	FC5718R																			
Max Speed	13500 rpm	13500 rpm																			
Max RCF	17113 × g	17113 × g																			
<b>Angle rotor, 30 × 1.5/2.0 ml, ID, Sealable</b>																					
Item	30314836																				
For	FC5718	FC5718R																			
Max Speed	13000 rpm	14000 rpm																			
Max RCF	17758 × g	20595 × g																			
<b>Angle rotor, 24 × 1.5/2.0 ml, ID</b>																					
Item	30314838																				
For	FC5718	FC5718R																			
Max Speed	14000 rpm	15000 rpm																			
Max RCF	18624 × g	21379 × g																			
<b>Angle rotor, 24 × 1.5/2.0 ml, ID, Sealable</b>																					
Item	30304361																				
For	FC5718	FC5718R																			
Max Speed	14000 rpm	15000 rpm																			
Max RCF	18624 × g	21379 × g																			
<b>Angle rotor, 12 × 1.5/2.0 ml, ID</b>																					
Item	30314839																				
For	FC5718	FC5718R																			
Max Speed	18000 rpm	18000 rpm																			
Max RCF	23542 × g	23542 × g																			
<b>Angle rotor, 64 × 0.5 ml, ID</b>																					
Item	30314840																				
For	FC5718	FC5718R																			
Max Speed	13500 rpm	13500 rpm																			
Max RCF	16298 × g	16298 × g																			
<b>Angle rotor, 4 × 8-w PCR Strip, ID</b>																					
Item	30314841																				
For	FC5718	FC5718R																			
Max Speed	15000 rpm	15000 rpm																			
Max RCF	15343 × g	15343 × g																			

\*Blood collection tube  
ID: auto rotor identification  
Hi: version with higher speed

● Original size ▲ With adapter

# Frontier™ 5000 Series Multi-Pro Centrifuges

FC5816/FC5816R			0.2/ 0.4 ml	0.5 ml	1.5/ 2.0 ml	4.5 ml	5 ml	7 ml	10 ml	15 ml	16 ml	25 ml	30 ml	50 ml	85 ml	100 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Swing out rotor, 4 × 250 ml, ID</b>																					
Item	30314820																				
For	FC5816	FC5816R			●				●	●		●		●		●	●	●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3780 × g	3780 × g																			
<b>Swing out rotor, 2 × 3 MTP, ID</b>																					
Item	30314824																				
For	FC5816	FC5816R			▲																●
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2716 × g	2716 × g																			
<b>Swing out rotor, 16 × 50 ml, ID</b>																					
Item	30314828																				
For	FC5816	FC5816R								●				●				●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3735 × g	3735 × g																			
<b>Angle rotor, 6 × 250 ml, ID</b>																					
Item	30314821																				
For	FC5816	FC5816R			▲				▲	▲			▲	▲			●				
Max Speed	8000 rpm	8000 rpm																			
Max RCF	10016 × g	10016 × g																			
<b>Angle rotor, 6 × 85 ml, ID</b>																					
Item	30314826																				
For	FC5816	FC5816R								▲	▲		▲	▲	●						
Max Speed	11000 rpm	13000 rpm																			
Max RCF	15555 × g	21726 × g																			
<b>Angle rotor, 4 × 85 ml, ID, Hi</b>																					
Item	30314827																				
For	FC5816	FC5816R								▲			▲	▲	●						
Max Speed	12000 rpm	12000 rpm																			
Max RCF	14809 × g	14809 × g																			
<b>Angle rotor, 10 × 50 ml, ID</b>																					
Item	30314829																				
For	FC5816	FC5816R			▲		▲	▲		▲				●							
Max Speed	9000 rpm	10500 rpm																			
Max RCF	11771 × g	16022 × g																			
<b>Angle rotor, 6 × 50 ml, ID, Hi</b>																					
Item	30314831																				
For	FC5816	FC5816R								▲	▲		▲	●							
Max Speed	13000 rpm	13000 rpm																			
Max RCF	15869 × g	15869 × g																			
<b>Angle rotor, 30 × 15 ml, ID</b>																					
Item	30314832																				
For	FC5718	FC5718R			▲		▲	▲		●											
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2830 × g	2830 × g																			

\*Blood collection tube  
ID: auto rotor identification  
Hi: version with higher speed

● Original size    ▲ With adapter  
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FC5816/FC5816R			0.2/ 0.4 ml	0.5 ml	1.5/ 2.0 ml	4.5 ml	5 ml	7 ml	10 ml	15 ml	16 ml	25 ml	30 ml	50 ml	85 ml	100 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
Angle rotor, 20 × 10 ml, ID, Hi									<div></div>												
Item	30314833																				
For	FC5816	FC5816R																			
Max Speed	12000 rpm	12000 rpm																			
Max RCF	15775 × g	15775 × g																			
Angle rotor, 44 × 1.5/2.0 ml, ID			<div></div>	<div></div>																	
Item	30314835																				
For	FC5816	FC5816R																			
Max Speed	15000 rpm	16000 rpm																			
Max RCF	21128 × g	24039 × g																			
Angle rotor, 24 × 1.5/2.0 ml, ID			<div></div>	<div></div>																	
Item	30314838																				
For	FC5816	FC5816R																			
Max Speed	15000 rpm	16000 rpm																			
Max RCF	21379 × g	24325 × g																			
Angle rotor, 24 × 1.5/2.0 ml, ID, Sealable			<div></div>	<div></div>																	
Item	30304361																				
For	FC5816	FC5816R																			
Max Speed	15000 rpm	16000 rpm																			
Max RCF	21379 × g	24325 × g																			

\*Blood collection tube  
ID: auto rotor identification  
Hi: version with higher speed

●

 Original size

▲

 With adapter

# Frontier™ 5000 Series Multi-Pro Centrifuges

Model	FC5714		FC5718		FC5718R		FC5816		FC5816R	
Maximum Speed	14000 rpm 10 rpm/set		18000 rpm 10 rpm/set		18000 rpm 10 rpm/set		15000 rpm 10 rpm/set		16000 rpm 10 rpm/set	
Maximum RCF	18624 × g 10 × g/set		23542 × g 10 × g/set		23542 × g 10 × g/set		21379 × g 10 × g/set		24325 × g 10 × g/set	
Maximum Capacity	4 × 100 ml		4 × 100 ml		4 × 100 ml		6 × 250 ml		6 × 250 ml	
Temperature range	Air cool		Air cool		-20~40℃		Air cool		-20~40 °C	
Running Time	Short Spin, 10 sec to 99 hr 59 min 59 sec, or continuous									
Noise Level (depending on the rotor)	≤ 63 ± 2 dB(A)		≤ 60 ± 2 dB(A)		≤ 60 ± 2 dB(A)		≤ 61 ± 2 dB(A)		≤ 63 ± 2 dB(A)	
Number of Compatible Rotors	9		19		19		13		13	
Acc/Dec Levels	10									
Allowable Kinetic Energy	5595 Nm		16672 Nm		25111 Nm		34363 Nm		34363 Nm	
AC Power	120V ~ 50/60 Hz	230 V ~ 50/60 Hz	120V ~ 50/60 Hz	230 V ~ 50/60 Hz	120V ~ 50/60 Hz	230 V ~ 50/60 Hz	120V ~ 50/60 Hz	230 V ~ 50/60 Hz	120V ~ 50/60 Hz	230 V ~ 50/60 Hz
Current Consumption	2.4 A	1.1 A	4.0 A	2.0 A	6.0 A	3.0 A	4.2 A	2.4 A	7.8 A	3.7 A
Power Consumption	300 W	240 W	475 W	455 W	660 W	660 W	520 W	530 W	850 W	785 W
Voltage Fluctuation	± 10 %									
Dimensions (W × D × H)	362 × 493 × 330 mm		408 × 499 × 351 mm		407 × 731 × 359 mm		446 × 538 × 354 mm		723 × 538 × 354 mm	
Net Weight (without rotor)	30 kg		43 kg		60 kg		52 kg		77 kg	
Environment	For indoor use only									

## Other Standard Features and Equipment


Ten acceleration and ten deceleration rates, pre-selection of running time from 10s to 99h 59min or continuous, audible signal at the end of each run with melody options, quick spin, CFC-free refrigeration system, sample temperature indication and standstill cooling (refrigerated models)

## Compliance

- **Product Safety:** EN 61010-1; EN 61010-2-020
- **EMC:** EN 61326-1





# Frontier™ 5000 Multi-Pro Accessories


	Order No.	30304361	Description	Rotor, Angle, 24 × 1.5/2.0 ml, ID, Sealable		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm
	max. RCF	18624 × g	18624 × g	21379 × g	21379 × g	24325 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 24 × 1.5/2.0 ml, ID, Sealable		1.5/2.0 ml	11 mm	Micro tube	24
30130885	Adapter, 1 × 0.5 ml D8mm, 6/pk		0.5 ml	8 mm	Micro tube	24
30130884	Adapter, 1 × 0.2/0.4 ml D6mm, 6/pk		0.2/0.4 ml	6 mm	Micro tube	24

	Order No.	30314820	Description	Rotor, Swing out, 4 × 250 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	—	—	4500 rpm	4500 rpm
	max. RCF	—	—	—	3780 × g	3780 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
30314901	Screw Cap, Rack of 250 ml Rotor, 2/pk		—	—	—	—
30314902	O-ring, Rack of 250 ml Rotor, 10/pk		—	—	—	—
30314903	Rack, 1 × 250 ml D62 mm FB, 2/pk		250 ml	62 mm	Flat bottom	4
30314904	Rack, 1 × 100 ml D41 mm RB, 2/pk		100 ml	41 mm	Round bottom	4
30314907	Rack, 1 × 50 ml D34 mm RB, 2/pk, v3		50 ml	34 mm	Round bottom	4
30314905	Rack, 3 × 50 ml D29 mm RB, 2/pk		50 ml	29 mm	Round bottom	12
30314906	Rack, 3 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	12
30314908	Rack, 2 × 50 ml D29 mm Rim, 2/pk		50 ml	29 mm	Skirted conical bottom	8
30314909	Rack, 1 × 50 ml D29 mm Rim, 2/pk, v3		50 ml	29 mm	Skirted conical bottom	4
30314910	Rack, 5 × 25 ml D24.5 mm RB, 2/pk		25 ml	24.5 mm	Round bottom	20
30314911	Rack, 3 × 25 ml D24.5 mm Rim, 2/pk		25 ml	24.5 mm	Skirted conical bottom	12
30314912	Rack, 9 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	36
30314913	Rack, 7 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	28
30314914	Rack, 7 × 15 ml D17 mm Rim, 2/pk		15 ml	17 mm	Skirted conical bottom	28
30314915	Rack, 8 × 10 ml D16 mm RB, 2/pk		10 ml	16 mm	Round bottom	32
30304367	Rack, 8 × 4-10 ml D16 mm Vac, 2/pk		4-10 ml	16 mm	Vacutainer	32
30314916	Rack, 14 × 5-7 ml D13 mm RB, 2/pk		5-7 ml	13 mm	Round bottom	56
30314917	Rack, 10 × 1.6-7 ml D13 mm Vac, 2/pk		1.6-7 ml	13 mm	Vacutainer	40
30304368	Adapter, 9 × 1.5/2.0 ml D11 mm , 2/pk		1.5/2.0 ml	11 mm	Micro tube	36


# Frontier™ 5000 Multi-Pro Accessories


	Order No.	30314821	Description	Rotor, Angle, 6 × 250 ml FB, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	—	—	8000 rpm	8000 rpm
	max. RCF	—	—	—	10016 × g	10016 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 6 × 250 ml FB, ID		250 ml	62 mm	FB	6
30304374	Adapter, 1 × 50 ml D30 mm FA, 2/pk		50 ml	30 mm	Conical bottom	6
30304373	Adapter, 1 × 50 ml D29 mm RB, 2/pk		50 ml	29 mm	Round bottom	6
30304372	Adapter, 2 × 30 ml D26 mm RB, 2/pk		30 ml	26 mm	Round bottom	12
30304371	Adapter, 4 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	24
30304370	Adapter, 5 × 10 ml D16 mm RB, 2/pk		10 ml	16 mm	Round bottom	30
30304369	Adapter, 8 × 1.5 ml D11 mm , 2/pk		1.5 ml	11 mm	Micro tube	48


	Order No.	30314822	Description	Rotor, Swing out, 4 × 100 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	4500 rpm	4500 rpm	4500 rpm	—	—
	max. RCF	3350 × g	3350 × g	3350 × g	—	—
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
30314842	Rack, 1 × 100 ml D46 mm RB, 2/pk		100 ml	46 mm	Round bottom	4
30314843	Rack, 1 × 85 ml D38 mm RB, 2/pk		85 ml	38 mm	Round bottom	4
30314844	Rack, 1 × 50 ml D34 mm RB, 2/pk		50 ml	34 mm	Round bottom	4
30314845	Rack, 1 × 50 ml D29 mm RB, 2/pk		50 ml	29 mm	Round bottom	4
30314846	Rack, 1 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	4
30314847	Rack, 1 × 50 ml D29 mm Rim, 2/pk		50 ml	29 mm	Skirted conical bottom	4
30314848	Rack, 1 × 30 ml D25 mm Rim, 2/pk		30 ml	25 mm	Skirted conical bottom	4
30314849	Rack, 1 × 25 ml D25 mm RB, 2/pk		25 ml	25 mm	Round bottom	4
30314852	Rack, 7 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	28
30314850	Rack, 2 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	8
30314851	Rack, 1 × 15 ml D17 mm Rim, 2/pk		15 ml	17 mm	Skirted conical bottom	4
30314858	Rack, 5 × 4-10 ml D16 mm Sar, 2/pk		4-10 ml	16 mm	Sarstedt	20
30314853	Rack, 9 × 5-7 ml D13 mm RB, 2/pk		5-7 ml	13 mm	Round bottom	36
30314856	Rack, 7 × 5-7 ml D13 mm RB, 2/pk		5-7 ml	13 mm	Round bottom	28
30314857	Rack, 7 × 5-7 ml D13 mm Vac, 2/pk		5-7 ml	13 mm	Vacutainer	28
30314854	Rack, 10 × 1.5 ml D11 mm, 2/pk		1.5 ml	11 mm	Micro tube	40
30314855	Rack, 9 × 4.5 ml D12 mm FB, 2/pk		4.5 ml	12 mm	Flat bottom	36


	Order No.	30314823	Description	Rotor, Swing out, 4 × 100 ml, ID, Sealable		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	4000 rpm	5000 rpm	5000 rpm	—	—
	max. RCF	2486 × g	3885 × g	3885 × g	—	—
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
30314860	Bucket, 100 ml w/o Cap, 2/pk		—	—	—	—
30314861	Bucket, 100 ml w/ Cap, Sealable, 2/pk		—	—	—	—
30314862	Screw Cap, 100 ml Bucket, Sealable, 2/pk		—	—	—	—
30314863	O-ring, 100 ml Bucket, Sealable, 10/pk		—	—	—	—
30314864	Rack, 1 × 100 ml D40 mm RB, 2/pk		100 ml	40 mm	Round bottom	4
30314865	Rack, 1 × 85 ml D38 mm RB, 2/pk, v2		85 ml	38 mm	Round bottom	4
30314866	Rack, 1 × 50 ml D34 mm RB, 2/pk, v2		50 ml	34 mm	Round bottom	4
30314867	Rack, 1 × 50 ml D29 mm RB, 2/pk, v2		50 ml	29 mm	Round bottom	4
30314868	Rack, 1 × 50 ml D29 mm FA, 2/pk, v2		50 ml	29 mm	Conical bottom	4
30314881	Bucket, 2 × 50 ml D29 mm FA, w/ Rack, 2/pk		50 ml	29 mm	Conical bottom	8
30314869	Rack, 1 × 50 ml D29 mm Rim, 2/pk, v2		50 ml	29 mm	Skirted conical bottom	4
30314870	Rack, 1 × 30 ml D25 mm Rim, 2/pk, v2		30 ml	25 mm	Skirted conical bottom	4
30314871	Rack, 1 × 25 ml D25 mm RB, 2/pk, v2		25 ml	25 mm	Round bottom	4
30314872	Rack, 1 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	4
30314873	Rack, 2 × 15 ml D17 mm FA, 2/pk, v2		15 ml	17 mm	Conical bottom	8
30314874	Rack, 2 × 15 ml D17 mm Rim, 2/pk		15 ml	17 mm	Skirted conical bottom	8
30314875	Rack, 4 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	16
30314882	Bucket, 3 × 15 ml D17 mm FA, w/ Rack, 2/pk		15 ml	17 mm	Conical bottom	12
30314878	Rack, 3 × 10 ml D17 mm Sar, 2/pk		10 ml	17 mm	Sarstedt	12
30314880	Rack, 4 × 10 ml D17 mm Vac, 2/pk		10 ml	17 mm	Vacutainer	16
30314876	Rack, 7 × 5-7 ml D13 mm RB, 2/pk, v2		5-7 ml	13 mm	Round bottom	28
30314879	Rack, 4 × 5-7 ml D13 mm RB, 2/pk		5-7 ml	13 mm	Round bottom	16
30314877	Rack, 5 × 1.5 ml D11 mm, 2/pk		1.5 ml	11 mm	Micro tube	20


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	Order No.	30314824	Description	Rotor, Swing out, 2 × 3 MTP, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
	max. RCF	2716 × g	2716 × g	2716 × g	2716 × g	2716 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Swing out, 2 × 3MTP, ID		MTP	—	—	6
30314890	Bucket, 3 × MTP, 2/pk		MTP	—	—	6
30314891	Adapter, 48 × 1.5/2.0 ml D11mm, 2/pk		1.5/2.0 ml	11 mm	Micro tube	96

	Order No.	30314825	Description	Rotor, Angle, 6 × 85 ml RB, ID, Hi		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	11000 rpm	13500 rpm	—	—
	max. RCF	—	13932 × g	20984 × g	—	—
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 6 × 85 ml RB, ID, Hi		85 ml	38 mm	Round bottom	6
30314895	Adapter, 1 × 50 ml D29 mm RB, 2/pk, v2		50 ml	29 mm	Round bottom	6
30314896	Adapter, 1 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	6
30314894	Adapter, 1 × 30 ml D25 mm RB, 2/pk		30 ml	25 mm	Round bottom	6
30314899	Adapter, 1 × 16 ml D18 mm RB, 2/pk		16 ml	18 mm	Round bottom	6
30314897	Adapter, 1 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	6
30314898	Adapter, 2 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	12
30314893	Adapter, 1 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	6


	Order No.	30314826	Description	Rotor, Angle, 6 × 85 ml RB, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	9000 rpm	9000 rpm	11000 rpm	13000 rpm
	max. RCF	—	10413 × g	10413 × g	15555 × g	21726 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 6 × 85 ml RB, ID		85 ml	38 mm	Round bottom	6
30314895	Adapter, 1 × 50 ml D29 mm RB, 2/pk, v2		50 ml	29 mm	Round bottom	6
30314896	Adapter, 1 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	6
30314894	Adapter, 1 × 30 ml D25 mm RB, 2/pk		30 ml	25 mm	Round bottom	6
30314899	Adapter, 1 × 16 ml D18 mm RB, 2/pk		16 ml	18 mm	Round bottom	6
30314897	Adapter, 1 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	6
30314898	Adapter, 2 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	12
30314893	Adapter, 1 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	6


	Order No.	30314827	Description	Rotor, Angle, 4 × 85 ml RB, ID, Hi		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	12000 rpm	12000 rpm	12000 rpm	12000 rpm
	max. RCF	—	14809	14809 × g	14809 × g	14809 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 4 × 85 ml RB, ID, Hi		85 ml	38 mm	Round bottom	4
30314895	Adapter, 1 × 50 ml D29 mm RB, 2/pk, v2		50 ml	29 mm	Round bottom	4
30314896	Adapter, 1 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	4
30314894	Adapter, 1 × 30 ml D25 mm RB, 2/pk		30 ml	25 mm	Round bottom	4
30314899	Adapter, 1 × 16 ml D18 mm RB, 2/pk		16 ml	18 mm	Round bottom	4
30314897	Adapter, 1 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	4
30314898	Adapter, 2 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	8
30314893	Adapter, 1 × 15 ml D17 mm RB, 2/pk		15 ml	17 mm	Round bottom	4


	Order No.	30314828	Description	Rotor, Swing out, 16 × 50 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	—	—	4500 rpm	4500 rpm
	max. RCF	—	—	—	3735 × g	3735 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
30304375	Rack, 4 × 50 ml D29 mm FA, 2/pk		50 ml	29 mm	Conical bottom	16
30314583	Rack, 10 × 15 ml D17 mm FA, 2/pk		15 ml	17 mm	Conical bottom	40
30314585	Rack, 12 × 4-10 ml D16 mm Vac/Sar, 2/pk		4-10 ml	16 mm	Vacutainer/Sarstedt	48
30314584	Rack, 14 × 5-7 ml D13 mm Vac/Sar, 2/pk		5-7 ml	13 mm	Vacutainer/Sarstedt	56


	Order No.	30314829	Description	Rotor, Angle, 10 × 50 ml FA, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	7500 rpm	7500 rpm	9000 rpm	10500 rpm
	max. RCF	—	8174 × g	8174 × g	11771 × g	16022 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 10 × 50 ml FA, ID		50 ml	29 mm	Conical bottom	10
30130894	Adapter, 1 × 15 ml D17 mm RB, 2/pk, v2		15 ml	17 mm	Round bottom	10
30130889	Adapter, 1 × 7 ml D13.5 mm RB, 2/pk		7 ml	13.5 mm	Round bottom	10
30130890	Adapter, 1 × 5 ml D13.5 mm, 2/pk		5 ml	13.5 mm	Round bottom	10
30130886	Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk		1.5/2.0 ml	11 mm	Micro tube	10


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	Order No.	30314830	Description	Rotor, Angle, 6 × 50 ml RB/FA, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	6000 rpm	6000 rpm	6000 rpm	—	—
	max. RCF	4427 × g	4427 × g	4427 × g	—	—
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 6 × 50 ml RB/FA, ID	50 ml	29 mm	Round/Conical bottom	6	
30130891	Adapter, 1 × 30 ml D26 mm, 2/pk	30 ml	26 mm	Round bottom	6	
30130892	Adapter, 1 × 16 ml D18 mm, 2/pk	16 ml	18 mm	Round bottom	6	
30130893	Adapter, 1 × 15 ml D17 mm, 2/pk	15 ml	17 mm	Round bottom	6	
30130894	Adapter, 1 × 15 ml D17 mm RB, 2/pk, v2	15 ml	17 mm	Round/Conical bottom	6	
30130889	Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	6	
30130890	Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	6	
30130886	Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Micro tube	6	


	Order No.	30314831	Description	Rotor, Angle, 6 × 50 ml RB, ID, Hi		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	12000 rpm	12000 rpm	13000 rpm	13000 rpm
	max. RCF	—	13522 × g	13522 × g	15869 × g	15869 × g
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 6 × 50 ml RB, ID, Hi	50 ml	29 mm	Round bottom	6	
30130891	Adapter, 1 × 30 ml D26 mm, 2/pk	30 ml	26 mm	Round bottom	6	
30130892	Adapter, 1 × 16 ml D18 mm, 2/pk	16 ml	18 mm	Round bottom	6	
30314892	Adapter, 1 × 15 ml D17.5 mm FA, 2/pk	15 ml	17.5 mm	Conical bottom	6	
30130893	Adapter, 1 × 15 ml D17 mm, 2/pk	15 ml	17 mm	Round bottom	6	

	Order No.	30314832	Description	Rotor, Angle, 30 × 15 ml RB/FA, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
	max. RCF	2830 × g	2830 × g	2830 × g	2830 × g	2830 × g
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 30 × 15 ml RB/FA, ID	15 ml	17 mm	Round/Conical bottom	30	
30130889	Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	30	
30130890	Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	30	
30130886	Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Micro tube	30	


	Order No.	30314833	Description	Rotor, Angle, 20 × 10 ml RB, ID, Hi		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	12000 rpm	12000 rpm	12000 rpm	12000 rpm
	max. RCF	—	15775 × g	15775 × g	15775 × g	15775 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 20 × 10 ml RB, ID, Hi		10 ml	16 mm	Round bottom	20


	Order No.	30314834	Description	Rotor, Angle, 12 × 15 ml RB/FA, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	6000 rpm	6000 rpm	6000 rpm	—	—
	max. RCF	4427 × g	4427 × g	4427 × g	—	—
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 12 × 15 ml RB/FA, ID		15 ml	17 mm	Round/Conical bottom	12
30130889	Adapter, 1 × 7 ml D13.5 mm RB, 2/pk		7 ml	13.5 mm	Round bottom	12
30130890	Adapter, 1 × 5 ml D13.5 mm, 2/pk		5 ml	13.5 mm	Round bottom	12
30130886	Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk		1.5/2.0 ml	11 mm	Micro tube	12


	Order No.	30314835	Description	Rotor, Angle, 44 × 1.5/2.0 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	13500 rpm	13500 rpm	15000 rpm	16000 rpm
	max. RCF	—	17113 × g	17113 × g	21128 × g	24039 × g
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 44 × 1.5/2.0 ml, ID		1.5/2.0 ml	11 mm	Micro tube	44
30130885	Adapter, 1 × 0.5 ml D8 mm, 6/pk		0.5 ml	8 mm	Micro tube	44
30130884	Adapter, 1 × 0.2/0.4 ml D6 mm, 6/pk		0.2/0.4 ml	6 mm	Micro tube	44


	Order No.	30314836	Description	Rotor, Angle, 30 × 1.5/2.0 ml, ID, Sealable		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	12000 rpm	13000 rpm	14000 rpm	—	—
	max. RCF	15131 × g	17758 × g	20595 × g	—	—
Accessories						
Order No.	Description		Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 30 × 1.5/2.0 ml, ID, Sealable		1.5/2.0 ml	11 mm	Micro tube	30
30130885	Adapter, 1 × 0.5 ml D8 mm, 6/pk		0.5 ml	8 mm	Micro tube	30
30130884	Adapter, 1 × 0.2/0.4 ml D6 mm, 6/pk		0.2/0.4 ml	6 mm	Micro tube	30

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	Order No.	30314838	Description	Rotor, Angle, 24 × 1.5/2.0 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm
	max. RCF	18624 × g	18624 × g	21379 × g	21379 × g	24325 × g
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 24 × 1.5/2.0 ml, ID	1.5/2.0 ml	11 mm	Micro tube	24	
30130885	Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Micro tube	24	
30130884	Adapter, 1 × 0.2/0.4 ml D6 mm, 6/pk	0.2/0.4 ml	6 mm	Micro tube	24	

	Order No.	30314839	Description	Rotor, Angle, 12 × 1.5/2.0 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	18000 rpm	18000 rpm	—	—
	max. RCF	—	23542 × g	23542 × g	—	—
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 12 × 1.5/2.0 ml, ID	1.5/2.0 ml	11 mm	Micro tube	12	
30314900	Adapter, 1 × 1.5 ml for over 16000 × g, 6/pk	1.5 ml	11 mm	Micro tube	12	
30130885	Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Micro tube	12	
30130884	Adapter, 1 × 0.2/0.4 ml D6 mm, 6/pk	0.2/0.4 ml	6 mm	Micro tube	12	

	Order No.	30314840	Description	Rotor, Angle, 64 × 0.5 ml, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	13500 rpm	13500 rpm	—	—
	max. RCF	—	16298 × g	16298 × g	—	—
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 64 × 0.5 ml, ID	0.5 ml	8 mm	Micro tube	64	

	Order No.	30314841	Description	Rotor, Angle, 4 × 8-w PCR Strip, ID		
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
	max. speed	—	15000 rpm	15000 rpm	—	—
	max. RCF	—	15343 × g	15343 × g	—	—
Accessories						
Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor	
Without Adapter	Rotor, Angle, 4 × 8-w PCR Strip, ID	8-w PCR Strip	—	—	32	

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