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.

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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

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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
Swing out rotor, 4 × 100 ml, ID Item: 30314822 Max Speed: 4500 rpm Max RCF: 3350 × g			●	●				●		●	●	●	●	●		●	●		
Swing out rotor, 4 × 100 ml, ID, Sealable Item: 30314823 Max Speed: 4000 rpm Max RCF: 2486 × g			●				●	●		●	●	●	●	●			●		
Swing out rotor, 2 × 3MTP, ID Item: 30314824 Max Speed: 4500 rpm Max RCF: 2716 × g			▲																●
Angle rotor, 6 × 50 ml, ID Item: 30314830 Max Speed: 6000 rpm Max RCF: 4427 × g			▲		▲	▲		▲	▲		▲	●							
Angle rotor, 30 × 15 ml, ID Item: 30314832 Max Speed: 4500 rpm Max RCF: 2830 × g			▲		▲	▲		●											
Angle rotor, 12 × 15 ml, ID Item: 30314834 Max Speed: 6000 rpm Max RCF: 4427 × g			▲		▲	▲		●											
Angle rotor, 30 × 1.5/2.0 ml, ID, Sealable Item: 30314836 Max Speed: 12000 rpm Max RCF: 15131 × g	▲	▲	●																
Angle rotor, 24 × 1.5/2.0 ml, ID Item: 30314838 Max Speed: 14000 rpm Max RCF: 18624 × g	▲	▲	●																
Angle rotor, 24 × 1.5/2.0 ml, ID, Sealable 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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Frontier™ 5000 Series Multi-Pro Centrifuges

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
Swing out rotor, 4 × 100 ml, ID																					
Item	30314822																				
For	FC5718	FC5718R			●	●				●		●	●	●	●	●		●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3350 × g	3350 × g																			
Swing out rotor, 4 × 100 ml, ID, Sealable																					
Item	30314823																				
For	FC5718	FC5718R			●				●	●		●	●	●	●	●			●		
Max Speed	5000 rpm	5000 rpm																			
Max RCF	3885 × g	3885 × g																			
Swing out rotor, 2 × 3MTP, ID																					
Item	30314824																				
For	FC5718	FC5718R			▲																●
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2716 × g	2716 × g																			
Angle rotor, 6 × 85 ml, ID, Hi																					
Item	30314825																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	11000 rpm	13500 rpm																			
Max RCF	13932 × g	20984 × g																			
Angle rotor, 6 × 85 ml, ID																					
Item	30314826																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	9000 rpm	9000 rpm																			
Max RCF	10413 × g	10413 × g																			
Angle rotor, 4 × 85 ml, ID, Hi																					
Item	30314827																				
For	FC5718	FC5718R								▲	▲		▲	▲	●						
Max Speed	12000 rpm	12000 rpm																			
Max RCF	14809 × g	14809 × g																			
Angle rotor, 10 × 50 ml, ID																					
Item	30314829																				
For	FC5718	FC5718R			▲		▲	▲		▲				●							
Max Speed	7500 rpm	7500 rpm																			
Max RCF	8174 × g	8174 × g																			
Angle rotor, 6 × 50 ml , ID																					
Item	30314830																				
For	FC5718	FC5718R			▲		▲	▲		▲	▲		▲	●							
Max Speed	6000 rpm	6000 rpm																			
Max RCF	4427 × g	4427 × g																			
Angle rotor, 6 × 50 ml, ID, Hi																					
Item	30314831																				
For	FC5718	FC5718R								▲	▲		▲	●							
Max Speed	12000 rpm	12000 rpm																			
Max RCF	13522 × g	13522 × g																			
Angle rotor, 30 × 15 ml, ID																					
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
Angle rotor, 20 × 10 ml, Hi																					
Item	30314833																				
For	FC5718	FC5718R							●												
Max Speed	12000 rpm	12000 rpm																			
Max RCF	15775 × g	15775 × g																			
Angle rotor, 12 × 15 ml, ID																					
Item	30314834																				
For	FC5718	FC5718R			▲		▲	▲		●											
Max Speed	6000 rpm	6000 rpm																			
Max RCF	4427 × g	4427 × g																			
Angle rotor, 44 × 1.5/2.0 ml, ID																					
Item	30314835																				
For	FC5718	FC5718R	▲	▲	●																
Max Speed	13500 rpm	13500 rpm																			
Max RCF	17113 × g	17113 × g																			
Angle rotor, 30 × 1.5/2.0 ml, ID, Sealable																					
Item	30314836																				
For	FC5718	FC5718R	▲	▲	●																
Max Speed	13000 rpm	14000 rpm																			
Max RCF	17758 × g	20595 × g																			
Angle rotor, 24 × 1.5/2.0 ml, ID																					
Item	30314838																				
For	FC5718	FC5718R	▲	▲	●																
Max Speed	14000 rpm	15000 rpm																			
Max RCF	18624 × g	21379 × g																			
Angle rotor, 24 × 1.5/2.0 ml, ID, Sealable																					
Item	30304361																				
For	FC5718	FC5718R	▲	▲	●																
Max Speed	14000 rpm	15000 rpm																			
Max RCF	18624 × g	21379 × g																			
Angle rotor, 12 × 1.5/2.0 ml, ID																					
Item	30314839																				
For	FC5718	FC5718R	▲	▲	●																
Max Speed	18000 rpm	18000 rpm																			
Max RCF	23542 × g	23542 × g																			
Angle rotor, 64 × 0.5 ml, ID																					
Item	30314840																				
For	FC5718	FC5718R	●																		
Max Speed	13500 rpm	13500 rpm																			
Max RCF	16298 × g	16298 × g																			
Angle rotor, 4 × 8-w PCR Strip, ID																					
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

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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
Swing out rotor, 4 × 250 ml, ID																					
Item	30314820																				
For	FC5816	FC5816R			●				●	●		●		●		●	●	●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3780 × g	3780 × g																			
Swing out rotor, 2 × 3MTP, ID																					
Item	30314824																				
For	FC5816	FC5816R			▲																●
Max Speed	4500 rpm	4500 rpm																			
Max RCF	2716 × g	2716 × g																			
Swing out rotor, 16 × 50 ml, ID																					
Item	30314828																				
For	FC5816	FC5816R								●				●				●	●		
Max Speed	4500 rpm	4500 rpm																			
Max RCF	3735 × g	3735 × g																			
Angle rotor, 6 × 250 ml, ID																					
Item	30314821																				
For	FC5816	FC5816R			▲				▲	▲			▲	▲			●				
Max Speed	8000 rpm	8000 rpm																			
Max RCF	10016 × g	10016 × g																			
Angle rotor, 6 × 85 ml, ID																					
Item	30314826																				
For	FC5816	FC5816R								▲	▲		▲	▲	●						
Max Speed	11000 rpm	13000 rpm																			
Max RCF	15555 × g	21726 × g																			
Angle rotor, 4 × 85 ml, ID, Hi																					
Item	30314827																				
For	FC5816	FC5816R								▲			▲	▲	●						
Max Speed	12000 rpm	12000 rpm																			
Max RCF	14809 × g	14809 × g																			
Angle rotor, 10 × 50 ml, ID																					
Item	30314829																				
For	FC5816	FC5816R			▲		▲	▲		▲				●							
Max Speed	9000 rpm	10500 rpm																			
Max RCF	11771 × g	16022 × g																			
Angle rotor, 6 × 50 ml, ID, Hi																					
Item	30314831																				
For	FC5816	FC5816R								▲	▲		▲	●							
Max Speed	13000 rpm	13000 rpm																			
Max RCF	15869 × g	15869 × g																			
Angle rotor, 30 × 15 ml, ID																					
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																					
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																					
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																					
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																					
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

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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°C		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, FCC Part 15 Class B

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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 D8 mm, 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

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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

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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 × 3MTP, 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

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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 × g	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

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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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