



# 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 7 models with capacities from 0.2 ml to 4 × 750 ml - and feature high speed performance at maximum volume, automatic rotor identification and safety features.

### ***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 seven 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 4x100 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 4x100 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 6x250 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 85 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5816R)

### FC5916 (non-refrigerated) and FC5916R (refrigerated) Centrifuges

- Compatible with up to 14 optional rotors and 75 accessories
- Capacities from microliter to 4 x 750 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 85 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5916R)



## 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	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>Rotor Swing out 2x3MTP w/ bucket ID</b>																			
Item				▲															●
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, BIOSEALS</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	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>Rotor Swing out 2x3MTP w/ bucket ID</b>																			
Item																			
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

(Continue on next page)

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	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, 24x1.5/2.0 ml, ID, BIOSEALS</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	175/ 225 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Swing out rotor, 4 × 250ml, ID</b>																						
Item	30314820																					
For	FC5816	FC5816R			▲				▲	▲		▲		▲				●	▲	▲		
Max Speed	4500 rpm	4500 rpm																				
Max RCF	3780 × g	3780 × g																				
<b>Rotor Swing out 2x3MTP w/ bucket ID</b>																						
Item																						
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

(Continue on next page)

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	175/ 225 ml	250 ml	4- 10 ml*	5- 7 ml*	PCR	MTP
<b>Angle rotor, 20 × 10 ml, ID, Hi</b>																						
Item	30314833																					
For	FC5816	FC5816R							●													
Max Speed	12000 rpm	12000 rpm																				
Max RCF	15775 × g	15775 × g																				
<b>Angle rotor, 44 × 1.5/2.0 ml, ID</b>																						
Item	30314835																					
For	FC5816	FC5816R	▲	▲	●																	
Max Speed	15000 rpm	16000 rpm																				
Max RCF	21128 × g	24039 × g																				
<b>Angle rotor, 24 × 1.5/2.0 ml, ID</b>																						
Item	30314838																					
For	FC5816	FC5816R	▲	▲	●																	
Max Speed	15000 rpm	16000 rpm																				
Max RCF	21379 × g	24325 × g																				
<b>Angle rotor, 24 × 1.5/2.0 ml, ID, BIOSEALS</b>																						
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*

FC5916/FC5916R			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	175/ 225 ml	250 ml	500 ml	750 ml	4-10 ml*	5-7 ml*	PCR	MTP
<b>Angle rotor, 24 × 1.5/2.0 ml, ID, BIOSEALS</b>																								
Item	30304361																							
For	FC5916	FC5916R	▲	▲	●																			
Max Speed	16000 rpm	16000 rpm																						
Max RCF	24325 × g	24325 × g																						
<b>Angle rotor, 6 × 250 ml, ID</b>																								
Item	30314821																							
For	FC5916	FC5916R			▲				▲	▲				▲	▲				●					
Max Speed	8000 rpm	8000 rpm																						
Max RCF	10016 × g	10016 × g																						
<b>Rotor Swing out 2x3MTP w/ bucket ID</b>																								
Item																								
For	FC5916	FC5916R			▲																			●
Max Speed	4500 rpm	4500 rpm																						
Max RCF	2716 × g	2716 × g																						
<b>Angle rotor, 6 × 85 ml, ID</b>																								
Item	30314826																							
For	FC5916	FC5916R								▲	▲			▲	▲	●								
Max Speed	11000 rpm	13000 rpm																						
Max RCF	15555 × g	21726 × g																						
<b>Angle rotor, 4 × 85 ml, ID, Hi</b>																								
Item	30314827																							
For	FC5916	FC5916R								▲				▲	▲	●								
Max Speed	15000 rpm	16000 rpm																						
Max RCF	23140 × g	26328 × g																						
<b>Angle rotor, 10 × 50 ml, ID</b>																								
Item	30314829																							
For	FC5916	FC5916R			▲		▲	▲		▲					●									
Max Speed	10000 rpm	10500 rpm																						
Max RCF	14532 × g	16022 × g																						
<b>Angle rotor, 6 × 50 ml, ID, Hi</b>																								
Item	30314831																							
For	FC5916	FC5916R								▲	▲			▲	●									
Max Speed	13000 rpm	13000 rpm																						
Max RCF	15869 × g	15869 × g																						
<b>Angle rotor, 20 × 10 ml, ID, Hi</b>																								
Item	30314833																							
For	FC5916	FC5916R								●														
Max Speed	12000 rpm	12000 rpm																						
Max RCF	15775 × g	15775 × g																						

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

● Adapter not required      ▲ With adapter

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FC5916/FC5916R			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	175/ 225 ml	250 ml	500 ml	750 ml	4-10 ml*	5-7 ml*	PCR	MTP
<b>Angle rotor, 44 × 1.5/2.0 ml, ID</b>																								
Item	30314835																							
For	FC5916	FC5916R	▲	▲	●																			
Max Speed	16000 rpm	16000 rpm																						
Max RCF	24325 × g	24325 × g																						
<b>Angle rotor, 30 × 1.5/2.0ml, ID, Sealable</b>																								
Item	30314836																							
For	FC5916	FC5916R	▲	▲	●																			
Max Speed	15000 rpm	15000 rpm																						
Max RCF	23643 × g	23643 × g																						
<b>Angle rotor, 24 × 1.5/2.0 ml, ID</b>																								
Item	30314838																							
For	FC5916	FC5916R	▲	▲	●																			
Max Speed	16000 rpm	16000 rpm																						
Max RCF	24325 × g	24325 × g																						
<b>Swing out rotor, 16 × 50 ml, ID</b>																								
Item	30314841																							
For	FC5916	FC5916R																						●
Max Speed	15000 rpm	15000 rpm																						
Max RCF	15343 × g	15343 × g																						
<b>Swing out rotor, 4 × 750 ml, ID, Sealable</b>																								
Item	30553085																							
For	FC5916	FC5916R							▲	▲	▲			▲	▲		▲	▲	▲	▲	▲	▲	▲	▲
Max Speed	4000 rpm	4500 rpm																						
Max RCF	3434 × g	4346 × g																						
<b>Angle rotor, 4 × 500 ml, ID</b>																								
Item	30553086																							
For	FC5916	FC5916R								▲				▲	▲		▲	▲	●					
Max Speed	8000 rpm	8000 rpm																						
Max RCF	10367 × g	10367 × g																						

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

● Adapter not required      ▲ With adapter

# FRONTIER™ 5000 SERIES *Multi-Pro Centrifuges*

Model	FC5714		FC5718		FC5718R		FC5816		FC5816R		FC5916		FC5916R	
Speed Range	200 - 14000 rpm 10 rpm/set		200 - 18000 rpm 10 rpm/set		200 - 18000 rpm 10 rpm/set		200 - 15000 rpm 10 rpm/set		200 - 16000 rpm 10 rpm/set		200 - 16000 rpm 10 rpm/set		200 - 16000 rpm 10 rpm/set	
RCF Range	20 - 18624 × g 10 × g/set		20 - 23542 × g 10 × g/set		20 - 23542 × g 10 × g/set		20 - 21379 × g 10 × g/set		20 - 24325 × g 10 × g/set		20 - 24325 × g 10 × g/set		20 - 26331 × g 10 × g/set	
Maximum Capacity	4 × 100 ml		4 × 100 ml		4 × 100 ml		6 × 250 ml		6 × 250 ml		4 × 750 ml		4 × 750 ml	
Temperature range	Air cool		Air cool		-20~40 °C		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)		≤ 63 ± 2 dB(A)		≤ 63 ± 2 dB(A)	
Number of Compatible Rotors	9		19		19		13		13		14		14	
Acc/Dec Levels	10													
Allowable Kinetic Energy	5595 Nm		16672 Nm		25111 Nm		34363 Nm		34363 Nm		60629 Nm		54458 Nm	
AC Power	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	5.6 A	2.8 A	20 A	7.2 A
Power Consumption	300 W	240 W	475 W	455 W	660 W	660 W	520 W	530 W	850 W	785 W	640 W	680 W	1630 W	1750 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		780 × 670 × 590 mm		900 × 750 × 560 mm	
Net Weight (without rotor)	30 kg		43 kg		60 kg		52 kg		77 kg		98 kg		137 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



80775215  
© Copyright OHAUS Corporation

OHAUS Europe GmbH  
Heuwinkelstrasse 3,  
8606 Nänikon,  
Switzerland


e-mail: ssc@ohaus.com  
Tel: 0041 22 567 53 19  
e-mail: tsc@ohaus.com  
Tel: 0041 22 567 53 20

[www.ohaus.com](http://www.ohaus.com)

The management system governing the manufacture of this product is ISO 9001: 2015 certified.

**CH16D274**


# FRONTIER™ 5000 SERIES *Multi-Pro Centrifuges*


	<b>Order No.</b>	30304361	<b>Description</b>	<b>Rotor, Angle, 24 × 1.5/2.0ml, ID, BIOSEALS</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm	16000 rpm	16000 rpm
	<b>max. RCF</b>	18624 × g	18624 × g	21379 × g	21379 × g	24325 × g	24325 × g	24325 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
Without Adapter	Rotor, Angle, 24 × 1.5/2.0 ml, ID, BIOSEALS			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	

	<b>Order No.</b>	30314820	<b>Description</b>	<b>Rotor, Swing out, 4 × 250ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	—	—	4500 rpm	4500 rpm	—	—
	<b>max. RCF</b>	—	—	—	3780 × g	3780 × g	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	

\*only possible with Rack 30314903

# FRONTIER™ 5000 SERIES *Multi-Pro Centrifuges*

	Order No.	30314821	Description	Rotor, Angle, 6 × 250 ml FB, ID				
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	max. speed	—	—	—	8000 rpm	8000 rpm	8000 rpm	8000 rpm
	max. RCF	—	—	—	10016 × g	10016 × g	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	Flat bottom	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	
30559412	Adapter, 15 × 1.5/2.0ml, D11mm, MTB, 2/pk			1.5/2.0 ml	11 mm	Micro tube	90	
30559413	Adapter, 1 × 250ml, D60mm, FA, 3/pk			250 ml	60 mm	Conical bottom	6	
30559414	Adapter, 1 × 175/225ml, D61mm, FA, 2/pk			175-225 ml	61mm	Conical bottom	6	

	Order No.	30314822	Description	Rotor, Swing out, 4 × 100 ml, ID				
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	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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	<b>Order No.</b>	30314823	<b>Description</b>	<b>Rotor, Swing out, 4x100ml, ID, Sealable</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	4000 rpm	5000 rpm	5000 rpm	—	—	—	—
	<b>max. RCF</b>	2486 × g	3885 × g	3885 × g	—	—	—	—
<b>Accessories ▲</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


▲ All racks are used with buckets only

\*only without bucket lid


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	Order No.		Description	Rotor Swing out 2x3MTP w/ bucket ID				
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	max. speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
	max. RCF	2716 × g	2716 × g	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 2x3MTP w/ bucket 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	11mm	Micro tube	96	


	Order No.	30314825	Description	Rotor, Angle, 6 × 85 ml RB, ID, Hi				
	Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	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	FC5916	FC5916R
	max. speed	—	9000 rpm	9000 rpm	11000 rpm	13000 rpm	11000 rpm	13000 rpm
	max. RCF	—	10413 × g	10413 × g	15555 × g	21726 × 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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	<b>Order No.</b>	30314827	<b>Description</b>	<b>Rotor, Angle, 4 × 85 ml RB, ID, Hi</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	12000 rpm	12000 rpm	12000 rpm	12000 rpm	15000 rpm	16000 rpm
	<b>max. RCF</b>	—	14809 × g	14809 × g	14809 × g	14809 × g	23140 × g	26328 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No. of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314828	<b>Description</b>	<b>Rotor, Swing out, 16 × 50 ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	—	—	4500 rpm	4500 rpm	—	—
	<b>max. RCF</b>	—	—	—	3735 × g	3735 × g	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No. of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314829	<b>Description</b>	<b>Rotor, Angle, 10 × 50 ml FA, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	7500 rpm	7500 rpm	9000 rpm	10500 rpm	10000 rpm	10500 rpm
	<b>max. RCF</b>	—	8174 × g	8174 × g	11771 × g	16022 × g	14532 × g	16022 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No. of tubes/rotor</b>	
Without Adapter	Rotor, Angle, 10 × 50 ml FA, ID			50 ml	29 mm	Conical bottom	10	
30472300	Adapter, 1 × 15 ml D17 mm RB, 2/pk, v2			15 ml	17 mm	Round bottom	10	
30472307	Adapter, 1 × 15 ml D17 mm FA, 2/pk, v2			15 ml	17 mm	Conical 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	


\*Only without rotor lid

▲Only possible with adapter 30472300 or 30472307

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	<b>Order No.</b>	30314830	<b>Description</b>	<b>Rotor, Angle, 6 × 50 ml RB/FA, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	6000 rpm	6000 rpm	6000 rpm	—	—	—	—
	<b>max. RCF</b>	4427 × g	4427 × g	4427 × g	—	—	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314831	<b>Description</b>	<b>Rotor, Angle, 6 × 50 ml RB, ID, Hi</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	12000 rpm	12000 rpm	13000 rpm	13000 rpm	13000 rpm	13000 rpm
	<b>max. RCF</b>	—	13522 × g	13522 × g	15869 × g	15869 × g	15869 × g	15869 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314832	<b>Description</b>	<b>Rotor, Angle, 30 × 15 ml RB/FA, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	—	—
	<b>max. RCF</b>	2830 × g	2830 × g	2830 × g	2830 × g	2830 × g	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


\*Only without rotor lid




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	<b>Order No.</b>	30314833	<b>Description</b>	<b>Rotor, Angle, 20 × 10ml RB, ID, Hi</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	12000 rpm	12000 rpm	12000 rpm	12000 rpm	12000 rpm	12000 rpm
	<b>max. RCF</b>	—	15775 × g	15775 × g	15775 × g	15775 × g	15775 × g	15775 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
Without Adapter	Rotor, Angle, 20 × 10ml RB, ID, Hi			10 ml	16 mm	Round bottom	20	


	<b>Order No.</b>	30314834	<b>Description</b>	<b>Rotor, Angle, 12 × 15 ml RB/FA, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	6000 rpm	6000 rpm	6000 rpm	—	—	—	—
	<b>max. RCF</b>	4427 × g	4427 × g	4427 × g	—	—	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314835	<b>Description</b>	<b>Rotor, Angle, 44 × 1.5/2.0 ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	13500 rpm	13500 rpm	15000 rpm	16000 rpm	16000 rpm	16000 rpm
	<b>max. RCF</b>	—	17113 × g	17113 × g	21128 × g	24039 × g	24325 × g	24325 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	


	<b>Order No.</b>	30314836	<b>Description</b>	<b>Rotor, Angle, 30 × 1.5/2.0 ml, ID, Sealable</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	12000 rpm	13000 rpm	14000 rpm	—	—	15000 rpm	15000 rpm
	<b>max. RCF</b>	15131 × g	17758 × g	20595 × g	—	—	23643 × g	23643 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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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	<b>Order No.</b>	30314838	<b>Description</b>	<b>Rotor, Angle, 24 × 1.5/2.0 ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm	16000 rpm	16000 rpm
	<b>max. RCF</b>	18624 × g	18624 × g	21379 × g	21379 × g	24325 × g	24325 × g	24325 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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	

	<b>Order No.</b>	30314839	<b>Description</b>	<b>Rotor, Angle, 12 × 1.5/2.0 ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	18000 rpm	18000 rpm	—	—	—	—
	<b>max. RCF</b>	—	23542 × g	23542 × g	—	—	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
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 over16000 × 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	

	<b>Order No.</b>	30314840	<b>Description</b>	<b>Rotor, Angle, 64 × 0.5 ml, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	13500 rpm	13500 rpm	—	—	—	—
	<b>max. RCF</b>	—	16298 × g	16298 × g	—	—	—	—
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
Without Adapter	Rotor, Angle, 64 × 0.5 ml, ID			0.5 ml	8 mm	Micro tube	64	

	<b>Order No.</b>	30314841	<b>Description</b>	<b>Rotor, Angle, 4 × 8-w PCR Strip, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	15000 rpm	15000 rpm	—	—	15000 rpm	15000 rpm
	<b>max. RCF</b>	—	15343 × g	15343 × g	—	—	15343 × g	15343 × g
<b>Accessories</b>								
<b>Order No.</b>	<b>Description</b>			<b>Vol./Tube</b>	<b>Tube Diameter</b>	<b>Tube type</b>	<b>No.of tubes/rotor</b>	
Without Adapter	Rotor, Angle, 4 × 8-w PCR Strip, ID			8-w PCR Strip	—	—	32	

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	<b>Order No.</b>	30553085	<b>Description</b>		<b>Rotor, Swing Out, 4 × 750ml, ID, Sealable</b>			
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	—	—	—	—	4000 rpm	4500 rpm
	<b>max. RCF</b>	—	—	—	—	—	3434 × g	4346 × g

### Accessories ▲

Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
30553104	Bucket, MTP, V1, 2/pk	MTP	—	—	8
30553105	Holder, Removing aid for Bucket 30553104, SS, 2/pk	—	—	—	—
30553117*	Lid Assembly, for bucket, 30553104, PC, 2/pk	—	—	—	—
30553118	O-Ring, for bucket 30553104, SIL, 10/pk	—	—	—	—
30553119	Bucket, MTP, V2, 2/pk	MTP	—	—	8
30553121	Bucket, 1 × 750 ml, D99 mm, FB, 2/pk	750 ml	99 mm	Flat bottom	4
30553122*	Lid Assembly, for Bucket 30553121, PC, 2/pk	—	—	—	—
30553123	O-Ring, for bucket 30553121, NBR, 10/pk	—	—	—	—
30553124	Rack, 1 × 500 ml, D96 mm, FA, 2/pk	500 ml	96 mm	Conical bottom	4
30553125	Rack, 1 × 250 ml, D62 mm, FB, 2/pk, V1	250 ml	62 mm	Flat bottom	4
30553126	Rack, 1 × 175/225 ml, D41 mm, FA, 2/pk	175-225 ml	61 mm	Conical bottom	4
30553127	Rack, 3 × 100 ml, D41 mm, RB, 2/pk	100 ml	41 mm	Round bottom	12
30553128	Rack, 5 × 50 ml, D29 mm, FA, 2/pk	50 ml	29 mm	Conical bottom	20
30553129	Rack, 5 × 50 ml, D29 mm, FAw/R, 2/pk	50 ml	29 mm	Conical bottom	20
30553130	Rack, 7 × 50 ml, D29 mm, FA, 2/pk	50 ml	29 mm	Conical bottom	28
30553131	Rack, 7 × 50 ml, D29 mm, RB, 2/pk	50 ml	29 mm	Round bottom	28
30553132	Rack, 8 × 30 ml, D26 mm, RB, 2/pk	30 ml	26 mm	Round bottom	32
30553133	Rack, 14 × 15 ml, D17 mm, FA, 2/pk	15 ml	17 mm	Conical bottom	56
30553134	Rack, 17 × 15 ml, D17 mm, FA, 2/pk	15 ml	17 mm	Conical bottom	68
30553135	Rack, 18 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	72
30553136	Rack, 21 × 10 ml, D16 mm, RB, 2/pk	10 ml	16 mm	Round bottom	84
30553138	Rack, 32 × 7 ml, D13 mm, RB, 2/pk	7 ml	13 mm	Round bottom	128
30553139	Rack, 27 × 1.8/7 ml, D13 mm, Vac/Sar, 2/pk	1.8-7 ml	13 mm	Vacutainer/Sarstedt	108
30553140	Rack, 18 × 4/10 ml D16 mm Vac/Sar x2	4-10 ml	16 mm	Vacutainer/Sarstedt	72
30559377	Rack, 38 × 1.1/1.4 ml, D8 mm, Sar, 2/pk	1.1-1.4 ml	8 mm	Sarstedt	152

▲ All racks are used with bucket 30553121 only, rack for rectangular buckets on request

\* 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

	<b>Order No.</b>	30553086	<b>Description</b>		<b>Rotor, Angle, 4 × 500 ml, ID</b>			
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	—	—	—	—	8000 rpm	8000 rpm
	<b>max. RCF</b>	—	—	—	—	—	10367 × g	10367 × g

### Accessories

Order No.	Description	Vol./Tube	Tube Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 4 × 500 ml, ID	500 ml	96 mm	Round/Conical bottom	4
30559416	Adapter, 1 × 250 ml, D60.5 mm, FA, 2/pk	250 ml	60.5 mm	Conical bottom	4
30559417	Adapter, 1 × 175/225 ml, D61.5 mm, FA, 2/pk	175-225 ml	61.5 mm	Conical bottom	4
30559419	Adapter, 1 × 50 ml, D29.5 mm, FA, 2/pk	50 ml	29.5 mm	Conical bottom	4
30559420	Adapter, 4 × 30 ml, D25.5 mm, RB, 2/pk	50 ml	29 mm	Round bottom	12
30559421	Adapter, 4 × 30 ml, D25.5 mm, RB, 2/pk	30 ml	25.5 mm	Round bottom	16
30559422	Adapter, 6 × 15 ml, D17 mm, FA, 2/pk	15 ml	17 mm	Conical bottom	24
30564850	Adapter, 1 × 250 ml, D61.5 mm, FB, 2/pk	250 ml	61.5 mm	Flat bottom	4