



# 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 multiple applications in research, industrial, and clinical laboratories and can be combined with our range of rotors and accessories for customized use. 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.

### ***Unique Features Include:***

- **Versatile 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 – 18,000 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 (0.2 ml per tube) 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 (0.2 ml per tube) 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 (0.2 ml per tube) 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 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 × 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 when wearing gloves
- 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.

- 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

Frontier 5000 Series centrifuges are equipped with 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>Swing out rotor, 2 × 3MTP, 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

● Adapter not required      ▲ With adapter

# 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	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 × 3MTP, 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

● Adapter not required

▲ 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

● Adapter not required      ▲ 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 × 250ml, ID</b>																				
Item	30314820																			
For	FC5816	FC5816R		▲				▲	▲		▲		▲		▲	●	▲	▲		
Max Speed	4500 rpm	4500 rpm																		
Max RCF	3780 × g	3780 × g																		
<b>Swing out rotor, 2 × 3MTP, 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

● Adapter not required      ▲ 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	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

● Adapter not required      ▲ 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 ml	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>Swing out rotor, 2 × 3MTP, ID</b>																									
Item	30314824																								
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																							

● Adapter not required

▲ With adapter

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

(Continue on next page)



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 ml	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>Rotor, Swing Out, 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																							

● Adapter not required      ▲ With adapter

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

# 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	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	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 14.3 × 19.5 × 13.0 in.		408 × 499 × 351 mm 16.1 × 19.7 × 13.9 in.		407 × 731 × 359 mm 16.1 × 28.8 × 14.2 in.		446 × 538 × 354 mm 17.6 × 21.2 × 14.0 in.		723 × 538 × 354 mm 28.5 × 21.2 × 14.0 in.		780 × 670 × 590 mm 30.8 × 26.4 × 23.3 in.		900 × 750 × 560 mm 35.5 × 29.6 × 22.1 in.	
Net Weight (without rotor)	30 kg / 66.2 lb		43 kg / 94.8 lb		60 kg / 132.3 lb		52 kg / 114.7 lb		77 kg / 169.8 lb		98 kg / 216.1 lb		137 kg / 302.1 lb	
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

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*With offices throughout  
Europe, Asia and  
Latin America*

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Registered Quality  
Management System

**CH16D274**




# FRONTIER 5000 SERIES *Multi-Pro Accessories*


	<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

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	<b>Order No.</b>	<b>30314821</b>	<b>Description</b>	<b>Rotor, Angle, 6 × 250 ml FB, ID</b>				
	<b>Compatible to</b>	<b>FC5714</b>	<b>FC5718</b>	<b>FC5718R</b>	<b>FC5816</b>	<b>FC5816R</b>	<b>FC5916</b>	<b>FC5916R</b>
	<b>max. speed</b>	—	—	—	8000 rpm	8000 rpm	8000 rpm	8000 rpm
	<b>max. RCF</b>	—	—	—	10016 × g	10016 × g	10016 × g	10016 × 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 × 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	

	<b>Order No.</b>	<b>30314822</b>	<b>Description</b>	<b>Rotor, Swing out, 4 × 100 ml, ID</b>				
	<b>Compatible to</b>	<b>FC5714</b>	<b>FC5718</b>	<b>FC5718R</b>	<b>FC5816</b>	<b>FC5816R</b>	<b>FC5916</b>	<b>FC5916R</b>
	<b>max. speed</b>	4500 rpm	4500 rpm	4500 rpm	—	—	—	—
	<b>max. RCF</b>	3350 × g	3350 × g	3350 × 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>	
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


# FRONTIER 5000 SERIES *Multi-Pro Accessories*


	<b>Order No.</b>	30314824	<b>Description</b>	<b>Rotor, Swing out, 2 x 3MTP, 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	4500 rpm	4500 rpm
	<b>max. RCF</b>	2716 x g	2716 x g	2716 x g	2716 x g	2716 x g	2716 x g	2716 x 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, Swing out, 2 x 3MTP, ID			MTP	—	—	6	
30314890	Bucket, 3 x MTP, 2/pk			MTP	—	—	6	
30314891	Adapter, 48 x 1.5/2.0 ml D11mm, 2/pk			1.5/2.0 ml	11mm	Micro tube	96	


	<b>Order No.</b>	30314825	<b>Description</b>	<b>Rotor, Angle, 6 x 85 ml RB, ID, Hi</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	11000 rpm	13500 rpm	—	—	—	—
	<b>max. RCF</b>	—	13932 x g	20984 x 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 x 85 ml RB, ID, Hi			85 ml	38 mm	Round bottom	6	
30314895	Adapter, 1 x 50 ml D29 mm RB, 2/pk, v2			50 ml	29 mm	Round bottom	6	
30314896	Adapter, 1 x 50 ml D29 mm FA, 2/pk			50 ml	29 mm	Conical bottom	6	
30314894	Adapter, 1 x 30 ml D25 mm RB, 2/pk			30 ml	25 mm	Round bottom	6	
30314899	Adapter, 1 x 16 ml D18 mm RB, 2/pk			16 ml	18 mm	Round bottom	6	
30314897	Adapter, 1 x 15 ml D17 mm FA, 2/pk			15 ml	17 mm	Conical bottom	6	
30314898	Adapter, 2 x 15 ml D17 mm RB, 2/pk			15 ml	17 mm	Round bottom	12	
30314893	Adapter, 1 x 15 ml D17 mm RB, 2/pk			15 ml	17 mm	Round bottom	6	

	<b>Order No.</b>	30314826	<b>Description</b>	<b>Rotor, Angle, 6 x 85 ml RB, ID</b>				
	<b>Compatible to</b>	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R
	<b>max. speed</b>	—	9000 rpm	9000 rpm	11000 rpm	13000 rpm	11000 rpm	13000 rpm
	<b>max. RCF</b>	—	10413 x g	10413 x g	15555 x g	21726 x g	15555 x g	21726 x 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 x 85 ml RB, ID			85 ml	38 mm	Round bottom	6	
30314895	Adapter, 1 x 50 ml D29 mm RB, 2/pk, v2			50 ml	29 mm	Round bottom	6	
30314896	Adapter, 1 x 50 ml D29 mm FA, 2/pk			50 ml	29 mm	Conical bottom	6	
30314894	Adapter, 1 x 30 ml D25 mm RB, 2/pk			30 ml	25 mm	Round bottom	6	
30314899	Adapter, 1 x 16 ml D18 mm RB, 2/pk			16 ml	18 mm	Round bottom	6	
30314897	Adapter, 1 x 15 ml D17 mm FA, 2/pk			15 ml	17 mm	Conical bottom	6	
30314898	Adapter, 2 x 15 ml D17 mm RB, 2/pk			15 ml	17 mm	Round bottom	12	
30314893	Adapter, 1 x 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	—	—	—	—

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	

	<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

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	


	<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	—	—


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	


\*only without bucket lid




# FRONTIER 5000 SERIES *Multi-Pro Accessories*


	<b>Order No.</b>	30314833	<b>Description</b>	Rotor, Angle, 20 × 10ml RB, ID, Hi				
	<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>	Rotor, Angle, 12 × 15 ml RB/FA, ID				
	<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>	Rotor, Angle, 44 × 1.5/2.0 ml, ID				
	<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>	Rotor, Angle, 30 × 1.5/2.0 ml, ID, Sealable				
	<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, 21 × 10 ml, D16 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	5-10 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>	30314839	<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>	—	18000 rpm	18000 rpm	—	—	—	—
	<b>max. RCF</b>	—	23542 × g	23542 × 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