



FRONTIER™ 5916&5916R

High-Capacity Multi-Pro Centrifuges



Powerful and Versatile High-throughput Centrifuges for Virtually Any Lab Application

Frontier 5916 and 5916R are designed for multipurpose use in various applications within research, industrial, and clinical laboratories. They can be combined with our range of rotors and accessories for customized use. The FC5916 and FC5916R are able to spin containers from 0,2 ml to 4 × 750 ml with swing-out and fixed angle rotors. They feature high-speed performance at maximum volume, automatic rotor identification, and multiple safety features. These models can process large quantities and different sizes of blood collection tubes, conical cell culture tubes, plates, and various volumes and types of bottles.

Features:

- Thanks to its powerful motor, the FC5916 and FC5916R deliver precise separation results achieving values up to 16 000 rpm and 24 326/26 331 G-force. This can be configured to fit workflow needs using a selection of rotors and accessories.
- The intuitive design of the centrifuges & accessories enable easy access to parameter settings, with the flexibility to change parameters during operation without the need to stop the machine. Features include automatic rotor recognition and backlit LCD.
- The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use. Rotor chamber constructed of chemical-resistant stainless steel to ensure durability in lab use.

FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

Maximum Application Flexibility

FC5916 and FC5916R centrifuges are designed for maximum application flexibility efficiently accommodate a wide variety of tubes and bottles, including microtubes, blood tubes, round bottom tubes, conical tubes, PCR Stripes/Tubes and microliter plates, ensuring versatile and reliable performance for diverse laboratory needs.

- Compatible with up to 13 optional rotors and 67 accessories
- Capacity of up to 4×750 ml with the ability to spin up to 108 blood tubes or 68×15 ml conical tubes and 28×50 ml conical tubes
- High-speed centrifugation (>10 000 rpm) from 0,2 ml up to 1,5/2,0 ml tubes
- FC5916R has refrigeration capabilities from 40 °C to -20 °C
 - R290, an environmentally friendly coolant, contributes to the eco-friendliness of refrigerated centrifuges by minimizing their environmental impact and supporting efforts to combat global warming
 - Pre-cool feature quickly lowers the temperature of rotor and chamber before a run



Intuitively Designed for Simple Operation

FC5916 and FC5916R were designed to make lab processes more efficient and easier, and includes many user-friendly features & software that allow for intuitive operation.

- Automatic rotor recognition (RFID) 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 motor provides maximum G-force of 24 326 / 26 331
- Optimized airflow system to keep samples cool (FC5916)
- Chemical and corrosion-resistant stainless steel rotor chamber ensures durability in lab environments
- Self-diagnostic program to record usage and error history for easy maintenance and to minimize downtime



FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

Safety Features for Increased Security

FC5916 and FC5916R 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 TÜV certified rotors to safeguard operators from harmful aerosols

Specifications


Model	FC5916		FC5916R	
Order No.	230V: 30553036	120V: 30553037	230V: 83042049	120V: 83042050
Speed Range	200 rpm – 16 000 rpm; 10 rpm / increments Angle Rotor: 16 000 rpm Swing out Rotor: 4 000 rpm		200 rpm – 16 000 rpm; 10 rpm / increments Angle Rotor: 16 000 rpm Swing out Rotor: 4 500 rpm	
Maximum RCF	24 325×g; 10×g / increments Angle Rotor: 24 325×g Swing out Rotor: 3 434×g		26 328×g; 10×g / increments Angle Rotor: 26 328×g Swing out Rotor: 4 346×g	
Maximum Capacity (Rotor)	Angle Rotor: 4×500 ml Swing out Rotor: 4×750 ml			
Temperature Range	Air cooled		-20 °C to 40 °C, 1 °C / increments	
Refrigerant	N/A		R290 (Propane)	
Running Time	Quick Spin, 10 sec to 99 hr 59 min, or continuous			
Noise Level (depending on the rotor)	≤ 63 + 2 dB(A)			
Acc/Dec Levels	10/10			
Allowable Density at Maximum Speed	1,2 g/ml			
Allowable Kinetic Energy	60 629 Nm		54 458 Nm	
Rated voltage	230 V/50-60 Hz	120 V/50-60 Hz	230 V/50-60 Hz	120 V/50-60 Hz
Voltage Fluctuation	± 10%			
Rated current	2,8 A	5,6 A	7,2 A	20 A
Power continues	640 W	680 W	1 630 W	1 750 W
Dimensions (W×D×H)	544×651×371 mm		728×667×370 mm	
Net Weight (without rotor)	85 kg		118 kg	
Shipping Dimensions (W×D×H)	780×670×590 mm		900×750×560 mm	
Shipping Weight (without rotor)	98 kg		137 kg	
Ambient conditions (EN/IEC 61010-1)	Environment	For indoor use only		
	Altitude	Use up to an altitude of 2 000 m		
	Ambient temperature	5 °C up to 35 °C		
	Max. relative humidity	Max. relative humidity 80 % for temperatures up to 31 °C, Decreasing linearly to 50 % relative humidity up to 35 °C.		
EMC	EN/IEC 61326-1 Class B emissions, Basic immunity FCC Class B emissions			
Not suitable for use in hazardous environments.				

FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges


Tube Type	Tubes Type	Tube diamentions	Number of tubes per centrifuge
	Microtubes	0,2 – 2,0 ml (Ø 6 – 11×38 mm)	44
	Blood Collection Tubes	1,8 – 5 ml (Ø 13×75 mm)	108
		4 – 7 ml (Ø 13×100 mm)	108
		6 – 10 ml (Ø 16×100 mm)	72
	Conical Tubes	15 ml (Ø 17×120 mm)	68
		50 ml (Ø 29×116 mm)	28
		175 ml (Ø 61×118 mm)	6
		225 ml (Ø 61×137 mm)	6
		250 ml (Ø 60×159 mm)	4
500 ml (Ø 97×148 mm)		4	

Tube Type	Tubes Type	Tube diamentions	Number of tubes per centrifuge
	Vials & Bottles	15 ml Round Bottom (Ø 17×120 mm)	72
		50 ml Round Bottom (Ø 29×116 mm)	28
		100 ml Round Bottom (Ø 44×100 mm)	12
		250 ml Flat Bottom (Ø 62×122 mm)	6
		290 ml Flat Bottom (Ø 62×137 mm)	4
		500 ml Flat Bottom (Ø 81×125 mm)	4
		500 ml Flat Bottom (Ø 98×114 mm)	4
		750 ml Flat Bottom (Ø 98×152 mm)	4
	PCR Stripes & Tubes	Stripes	4
PCR Tubes		32	

Accessories

	Order No.	30553085			
	Description	Rotor Swing out 4×750 ml ID			
	Compatible with	FC5916	FC5916R		
	Max. Speed	4000 rpm	4500 rpm		
	Max. RCF	3434×g	4346×g		
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Bucket for MTP (with TUV Certificate) and accessories					
30553104	Bucket 3×MTP, 2 pk V1	–	–	MTP	12
30553105	Holder Removing aid Bucket 30553104, 2 pk	–	–	–	–
30553117*	Lid Assembly for Bucket 30553104, 2 pk	–	–	–	–
30553118	O-Ring for bucket 30553104, 2 pk	–	–	–	–
Bucket for MTP (without TUV Certificate)					
30553119	Bucket 3×MTP, 2 pk V2	–	–	MTP	12

FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

	Order No.	30553085			
	Description	Rotor Swing out 4×750 ml ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	4000 rpm		4500 rpm	
	Max. RCF	3434×g		4346×g	

Accessories

Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Round Bucket (with TUV Certificate) and accessories					
30602502	Rack 1×250 ml D62 mm FB, 2 pk	500 ml	98 mm	Flat Bottom	4
30553122*	Lid Assembly for round bucket, 2 pk	-	-	-	-
30553123	O-Ring for round bucket, 10 pk	-	-	-	-
30553124	Rack 1×500 ml D97 mm FA, 2 pk	500 ml	97 mm	Conical Bottom Corning®	4
30553125	Rack 1×250 ml D62 mm FB, 2 pk V1	250 ml	62 mm	Flat Bottom	4
30772866	Rack 1×250 ml D60 mm FA, 2pk	250 ml	60 mm	Conical Bottom	4
30553126	Rack 1×175/225 ml D61 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 Rim, 2 pk	50 ml	29 mm	Skirted 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
83041032▲	Adapter 1×25 ml D29 mm FA, 2 pk	25 ml	29 mm	Conical Bottom	6
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
83041591	Rack 18×8 ml D16 mm Vac, 2 pk	8 ml	16 mm	Vacutainer®	72
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, 2 pk	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
83041040	Rack 24×1,5/2,0 ml D11 mm, 2 pk	1,5/2,0 ml	11 mm	Microtube	96


* 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.

▲ Only possible with Rack 30553128 or 30553130

FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges


Cell Culture Package

Order No.	Description		
83041625	Package Cell Culture for 750ml Bucket (BIOSEALS certified)		
Products Included in the Package			
Order No.	Description	Qty	Number of Tubes
30553085	Rotor Swing out 4×750ml ID	1	–
30602502	Bucket 1×750ml D98mm FB, 2 pk	2	–
30553122	Lid Assembly for round bucket, 2 pk	2	–
30553130	Rack 7×50ml D29mm FA, 2 pk	2	28
30553134	Rack 17×15ml D17mm FA, 2 pk	2	68

	Order No.	30553086			
	Description	Rotor Angle 4×500 ml ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	8000 rpm		8000 rpm	
	Max. RCF	10367×g		10367×g	

Accessories

Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 4×500 ml ID	500 ml	69,5 mm	Round Bottom/Conical Bottom	4
30559416	Adapter 1×250 ml D60,5 mm FA, 2 pk	250 ml	60,5 mm	Conical Bottom	4
30564850	Adapter 1×250 ml D61,5 mm FB, 2 pk	250 ml	61,5 mm	Flat 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 3×50 ml D29 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


	Order No.	30314821			
	Description	Rotor Angle 6×250 ml FB ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	8000 rpm		8000 rpm	
	Max. RCF	10016×g		10016×g	

Accessories


Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 6×250 ml FB ID	250 ml	62 mm	Flat Bottom	6
30559414	Adapter 1×175/225 ml D61 mm FA, 2 pk	175/225 ml	61 mm	Conical Bottom	6
30304373	Adapter 1×50 ml D29 mm RB, 2 pk	50 ml	29 mm	Round Bottom	6
30304374	Adapter 1×50 ml D30 mm FA, 2 pk	50 ml	30 mm	Conical Bottom	6
30304372	Adapter 2×30 ml D26 mm RB, 2 pk	30 ml	26 mm	Round Bottom	12
83041032▲	Adapter 1×25 ml D29 mm FA, 2 pk	25 ml	29 mm	Conical Bottom	6
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 8×1,5/2,0 ml D11 mm, 2 pk	1,5/2,0 ml	11 mm	Microtube	48
30559412	Adapter 15×1,5/2,0 ml D11 mm MTB, 2 pk	1,5/2,0 ml	11 mm	Microtube	90

▲ Only possible with Adapter 30304374


FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

	Order No.	30314826			
	Description	Rotor Angle 6×85 ml RB ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	11 000 rpm		13 000 rpm	
	Max. RCF	15 555×g		21 726×g	
Accessories					
Order No.	Description	Vol./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 V1	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
83041032▲	Adapter 1×25 ml D29 mm FA, 2 pk	25 ml	29 mm	Conical 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


▲ Only possible with Adapter 30314896

	Order No.	30314829			
	Description	Rotor Angle 10×50 ml FA ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	10 000 rpm		10 500 rpm	
	Max. RCF	14 532×g		16 022×g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 10×50 ml FA ID	50 ml	29 mm	Conical Bottom	10
83041032	Adapter 1×25 ml D29 mm FA, 2 pk	25 ml	29 mm	Conical Bottom	10
30472300	Adapter 1×15 ml D17 mm RB, 2 pk V1	15 ml	17 mm	Round Bottom	10
30472307	Adapter 1×15 ml D17 mm FA, 2 pk V1	15 ml	17 mm	Conical Bottom	10
30130889▲	Adapter 1×7 ml D13 mm RB/Vac/Sar, 2 pk	7 ml	13 mm	Round Bottom/Vacutainer®/Sarstedt®	10
30130890▲	Adapter 1×5 ml D13 mm RB/Vac/Sar, 2 pk	5 ml	13 mm	Round Bottom/Vacutainer®/Sarstedt®	10
30130886▲	Adapter 1×1,5/2,0 ml D11 mm, 6 pk	1,5/2,0 ml	11 mm	Microtube	10

▲ Only possible with Adapter 30472300

	Order No.	30314824			
	Description	Rotor Swing out 2×3 MTP w/bucket ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	4 500 rpm		4 500 rpm	
	Max. RCF	2 716×g		2 716×g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
MTP Bucket and accessories					
Without Adapter	Rotor Swing out 2×3 MTP w/bucket ID	-	-	-	-
30314890	Bucket 3×MTP, 2 pk	-	-	MTP	6
30314891	Adapter 48×1,5/2,0 ml D11 mm, 2 pk	1,5/2,0 ml	11 mm	Microtube	96


FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

	Order No.	30314827			
	Description	Rotor Angle 4×85 ml RB ID Hi			
	Compatible with	FC5916		FC5916R	
	Max. Speed	12000 rpm		12000 rpm	
	Max. RCF	14809×g		14809×g	

Accessories


Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 4×85 ml RB ID Hi	85 ml	38 mm	Round Bottom	4
30314895	Adapter 1×50 ml D29 mm RB, 2 pk V1	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

* Only without rotor lid

	Order No.	30314831			
	Description	Rotor Angle 6×50 ml RB ID Hi			
	Compatible with	FC5916		FC5916R	
	Max. Speed	13000 rpm		13000 rpm	
	Max. RCF	15869×g		15869×g	

Accessories


Order No.	Description	Vol./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 D17,5mm FA, 2 pk	15 ml	17,5 mm	Conical Bottom	6
30130893	Adapter 1×15 ml D17 mm, 2 pk	15 ml	17 mm	Round Bottom	6


	Order No.	30314833			
	Description	Rotor Angle 20×10 ml RB ID Hi			
	Compatible with	FC5816		FC5816R	
	Max. Speed	12000 rpm		12000 rpm	
	Max. RCF	15775×g		15775×g	


Accessories

Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 20×10 ml RB ID Hi	10 ml	16 mm	Round Bottom	20

FRONTIER™ 5916&5916R High-Capacity Multi-Pro Centrifuges

	Order No.	30314836			
	Description	Rotor Angle 30 × 1,5/2,0 ml ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	15 000 rpm		15 000 rpm	
	Max. RCF	23 643 × g		23 643 × g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 30 × 1,5/2,0 ml ID	1,5/2,0 ml	11 mm	Microtube	30
30130885	Adapter 1 × 0,5 ml D8 mm, 6 pk	0,5 ml	8 mm	Microtube	30
30130884	Adapter 1 × 0,2/0,4 ml D6 mm, 6 pk	0,2/0,4 ml	6 mm	Microtube	30

	Order No.	83041238			
	Description	Rotor Angle 24 × 1,5/2,0 ml ID BIOSEALS V1			
	Compatible with	FC5916		FC5916R	
	Max. Speed	16 000 rpm		16 000 rpm	
	Max. RCF	24 325 × g		24 325 × g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 24 × 1,5/2,0 ml ID BIOSEALS V1	1,5/2,0 ml	11 mm	Microtube	30
30130885	Adapter 1 × 0,5 ml D8 mm, 6 pk	0,5 ml	8 mm	Microtube	30
30130884	Adapter 1 × 0,2/0,4 ml D6 mm, 6 pk	0,2/0,4 ml	6 mm	Microtube	30

	Order No.	30314841			
	Description	Rotor Angle 4 × 8-Place PCR Strip ID			
	Compatible with	FC5916		FC5916R	
	Max. Speed	15 000 rpm		15 000 rpm	
	Max. RCF	15 434 × g		15 434 × g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube Type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 4 × 8-Place PCR Strip ID	-	-	8-w PCR Strip	21

Shortcut list:

ID – auto rotor identification
FA – Conical bottom / Falcon®

Hi – version with higher speed
FB – Flat bottom

Vac – Vacutainer®
RB – Round bottom

Sar – Sarstedt®
Rim – Skirted conical bottom

FRONTIER™ 5916&5916R *High-Capacity Multi-Pro Centrifuges*

Other Standard Features and Equipment

Microprocessor control, Imbalance switch-off, Audible signal at the end of each run with melody options, Emergency release, 99 memory sets, Ten acceleration and ten deceleration rates, Pre-selection of running time from 10 sec to 99 hr 59 min or continuous, Quick spin for short runs.

Compliance

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