



FRONTIER™ 5515&5515R

High-Speed Micro Centrifuges



Smooth and Dependable High-Speed Micro Centrifuges for Liquid Separation Applications

Frontier 5515 and 5515R Benchtop Micro Centrifuges provide high-speed operation for a wide variety of tube volumes and capacities. With refrigeration capabilities (FC5515R), 10 acceleration/deceleration settings and multiple safety features, the FC5515 and FC5515R ensure stable liquid separation for applications requiring high-speed operation in molecular and cell biology, clinical, research and industrial applications.

Features:

- Excellent functionality when used with rotors compatible with high throughput and BIOSEALS options for 1.5/2.0 ml or 5 ml microtubes, spin columns, and cryo tubes. Additionally, when equipped with the appropriate rotor options, these centrifuges can also be used in diagnostic settings for hematocrit capillaries and PCR tubes/strips.
- Designed for ease of operation, Frontier Micro centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.
- Enclosing all their functionalities within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench.

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Easy-to-Use Control Panel

- Easy-to-turn rotary knob for parameter adjustments
- Waterproof keypad provides protection that helps significantly increase the lifespan of the product
- One-touch toggling between speed, G-force, and temperature controls (R model only)
- LCD display with light blue backlight which projects information in real-time
- View and adjust user parameters from the main screen; no need to navigate through sub-screens



High-Performance Driven by Sophisticated Technology

- Powerful induction motor reaches speeds up to 15200 RPM in less than 16 seconds
- Maximum G-force of 21953 RCF
- 10 acceleration/deceleration settings
- 99 memory sets to quickly store and recall commonly used parameters
- FC5515R model has refrigeration capabilities from 40 °C to -20 °C
 - Cools down from 23 °C to 4 °C in less than 10 minutes
 - 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



Safety Features that Prevent Injury

- Motorized lid-locking system prevents centrifuge from opening during operation
- Rotor imbalance sensing systems stops the unit when it detects an imbalanced load
- Sealed and TÜV certified rotors to safeguard operators from harmful aerosols



Flexibility for Varied Centrifugation Needs

- Works with microtube rotors with different rotor capacity – 24 x 1.5/2.0 ml, 30 x 1.5/2.0 ml or 44 x 1.5/2.0 ml
- Compatible with 6 rotors (7 rotors on FC5515 model), including spin column rotor, hematocrit rotor, PCR Strips/tubes rotor and angle rotor for 5ml tubes
- An ergonomically designed rotors for microtubes, spin columns and PCR Stripes/tubes quickly and easily closes with 1/4 of a turn




FRONTIER™ 5515&5515R High-Speed Micro Centrifuges


Specifications

Model	FC5515		FC5515R	
Order No.	230V: 83041547	120V: 83041548	230V: 83041549	120V: 83041550
Speed Range	200 rpm – 15200 rpm; 10 rpm / increments			
Maximum RCF	21953 x g; 10 x g / increments			
Maximum Capacity (Rotor)	Angle Rotor: 44 x 1.5/2.0 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)	≤ 60 + 2 dB(A)		≤ 57 + 2 dB(A)	
Acc/Dec Levels	10/10			
Allowable Density at Maximum Speed	1.2 g/ml			
Allowable Kinetic Energy	7204 Nm			
AC Power	230 V/50-60 Hz	120 V/50-60 Hz	230 V/50-60 Hz	120 V/50-60 Hz
Voltage Fluctuation	± 10%			
Current Consumption	1.3 A	2.3 A	2.4 A	5.1 A
Power Consumption	270 W	280 W	500 W	560 W
Dimensions (W x D x H)	280 x 393 x 287 mm		280 x 555 x 287 mm	
Net Weight (without rotor)	16 kg		35 kg	
Shipping Dimensions (W x D x H)	410 x 540 x 400 mm		390 x 690 x 390 mm	
Shipping Weight (without rotor)	20 kg		44 kg	
Ambient conditions (EN/IEC 61010-1)	Environment	For indoor use only		
	Altitude	Use up to an altitude of 2000 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.				

Accessories


	Item number	30372717			
	Description	Rotor Angle 44 x 1.5/2.0 ml V1			
	Compatible with	FC5515		FC5515R	
	Max. Speed	15000 rpm		15000 rpm	
	Max. RCF	21127 x g / 21379 x g		21127 x g / 21379 x g	
Accessories					
Order No.	Description	Vol./Tube	Diameter	Tube type	No. of Tubes/Rotor
Without Adapter	Rotor Angle 44 x 1.5/2.0 ml V1	1.5/2.0 ml	11 mm	Microtube	44
30130885	Adapter 1 x 0.5 ml D8 mm, 6 pk	0.5 ml	8 mm	Microtube	44
30130884	Adapter 1 x 0.2/0.4 ml D6 mm, 6 pk	0.2/0.4 ml	6 mm	Microtube	44

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	Item No.	30130872			
	Description	Rotor Angle 30 x 1.5/2.0 ml			
	Compatible with	FC5515		FC5515R	
	Max. Speed	13500 rpm		13500 rpm	
	Max. RCF	19151 x g		19151 x g	


Accessories

Order No.	Description	Vol./Tube	Diameter	Tube type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 30 x 1.5/2.0 ml	1.5/2.0 ml	11 mm	Microtube	30
30130885	Adapter 1 x 0.5 ml D8 mm, 6 pk	0.5 ml	8 mm	Microtube	30
30130884	Adapter 1 x 0.2/0.4 ml D6 mm, 6 pk	0.2/0.4 ml	6 mm	Microtube	30

	Item number	30642371			
	Description	Rotor Angle 24 x 1.5/2.0 ml BIOSEALS V2			
	Compatible with	FC5515		FC5515R	
	Max. Speed	15200 rpm		15200 rpm	
	Max. RCF	21953 x g		21953 x g	

Accessories


Order No.	Description	Vol./Tube	Diameter	Tube type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 24 x 1.5/2.0 ml BIOSEALS V2	1.5/2.0 ml	11 mm	Microtube	24
30130885	Adapter 1 x 0.5 ml D8 mm, 6 pk	0.5 ml	8 mm	Microtube	24
30130884	Adapter 1 x 0.2/0.4 ml D6 mm, 6 pk	0.2/0.4 ml	6 mm	Microtube	24

	Item number	30130873			
	Description	Rotor Angle 12 x 5 ml FA			
	Compatible with	FC5515		FC5515R	
	Max. Speed	14500 rpm		14500 rpm	
	Max. RCF	19978 x g		19978 x g	

Accessories


Order No.	Description	Vol./Tube	Diameter	Tube type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 12 x 5 ml FA	5 ml	17 mm	Microtube	12
30130886	Adapter 1 x 1.5/2.0 ml D11 mm, 6 pk	1.5/2.0 ml	11 mm	Microtube	12
30130887	Adapter 1 x 1 ml D12.6 mm Cryo, 6 pk	1 ml	12.6 mm	Cryo Tube - Flat Bottom	12
30130888	Adapter 1 x 1.8 ml D12.6 mm Cryo, 6 pk	1.8 ml	12.6 mm	Cryo Tube - Round Bottom	12

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	Item number	30130874			
	Description	Rotor Angle 4 x 8-Place PCR Strip			
	Compatible with	FC5515	FC5515R		
	Max. Speed	15000 rpm	15000 rpm		
	Max. RCF	15343 x g	15343 x g		


Accessories

Order No.	Description	Vol./Tube	Diameter	Tube type	No.of Tubes/Rotor
Without Adapter	Rotor Angle 4 x 8-Place PCR Strip	0.2/0.4 ml	-	8-w PCR Strip	32

	Item number	83041007			
	Description	Rotor Hematocrit 24 x Capillaries V2			
	Compatible with	FC5515	FC5515R		
	Max. Speed	13000 rpm	-		
	Max. RCF	16058 x g	-		

Accessories

Order No.	Description	Vol./Tube	Diameter	Tube type	No.of Tubes/Rotor
Without Adapter	Rotor Hematocrit 24 x Capillaries V2	-	1.9 mm	Capillaries	24

	Item number	83041050			
	Description	Rotor Angle 24 x 2.0 ml Spin Column V1			
	Compatible with	FC5515	FC5515R		
	Max. Speed	13500 rpm	13500 rpm		
	Max. RCF	17317 x g	17317 x g		

Accessories

Order No.	Description	Vol./Tube	Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor Angle 24 x 2.0 ml Spin Column V1	2 ml	11	Spin Column	24

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™ 5515&5515R High-Speed Micro 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

See Declaration of Conformity available CE Declarations | OHAUS

*Intended Use

This centrifuge and its accessories are an in vitro diagnostic medical device within the meaning of the In Vitro Diagnostic Medical Devices Regulation (EU) 2017/746. This centrifuge is intended for the separation of mixtures of substances of different densities, in particular for the preparation and processing of samples from the human body in the context of an in vitro diagnostic application, in order to enable the intended use of the in vitro diagnostic medical device.

These centrifuges are intended exclusively for use in closed rooms under supervision and for operation by trained specialist personnel.

Only the rotors and cups and other accessories specified in the instructions for use may be used. Any other use or use beyond this is considered improper use. We are not liable for any resulting damage. The contents of the operating instructions must be observed.

Contraindication

This centrifuge and its accessories are intended exclusively for the above-mentioned purpose and must not be used to determine any measured values. After centrifugation, no components of human origin may be implanted or administered back into the body.

Outline Dimensions

