



FRONTIER™ 5513

High-Speed Micro Centrifuge



Compact Micro Centrifuge with Modern Touch-Wheel Interface Ideal for High-Speed Lab Applications

The FC5513 is a high-speed benchtop microliter centrifuge capable of generating $17,317 \times g$ with four optional rotors, designed for a range of essential lab applications. Engineered with convenient operation in mind, the FC5513 features a uniquely designed splash-proof front panel with touch-wheel control on an intuitive interface. The compact design saves valuable bench space in the lab.

Standard Features:

- **Select from a Variety of Rotors Designed for a Range of Lab Applications**—The FC5513 offers standard $24 \times 1.5/2$ mL microtube rotors with a biocontainment option. This centrifuge can also support spin columns and hematocrit capillary tubes when used with additional rotor options.
- **Modern Touch-Wheel Control on a Sleek Splash-Proof Interface**—Designed for ease of operation, the FC5513 features convenient control on a protective splash-proof interface, which allows for responsive operation—even when wearing gloves.
- **The Compact Design Saves Valuable Benchtop Space**—Enclosing all its functionalities within a small footprint, the FC5513 saves valuable space on the lab bench.

FRONTIER™ 5513 *High-Speed Micro Centrifuge*

Sleekly designed interface enables smooth operation for a great user experience

- Easy-to-Use touch-wheel interface for parameter adjustments
- Convenient interface shows both set and actual parameters
- One-touch toggling between RPM/RCF, Acc/Dec
- Crisp display on a double-line LCD display with backlight

Solid engineering to ensure functionality and reliability


- True splash-proof panel protects the centrifuge from accidental sample spilling
- Maintenance-free induction motor produces maximum G-force of $17317 \times g$
- Speeds up to 13500 rpm in less than 15 seconds with microtubes
- 10 acceleration/deceleration settings
- 99 memory sets to quickly store and recall commonly used parameters
- Rotor imbalance sensing systems stops the unit when the loadings are imbalanced

Flexible rotor selections to cover essential laboratory applications

- Standard offer comes with $24 \times 1.5/2.0$ mL microtube rotors
- Compatible with 4 optional rotors, maximum capacity of $24 \times 1.5/2.0$ mL
- Support spin-column and hematocrit capillary through additional rotor options
- Biocontainment rotor available for safe handling of hazardous samples




FRONTIER™ 5513 Rotors and Accessories

	Order No.	30472301
	Description	Rotor, Angle, 24 × 1.5/2.0 mL, V2
	Max. Speed	13500 rpm
	Max. RCF	17317 × g


Accessories

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


	Order No.	30472302
	Description	Rotor, Angle, 24 × 1.5/2.0 mL, Sealable, V2
	Max. Speed	13500 rpm
	Max. RCF	17317 × g

Accessories

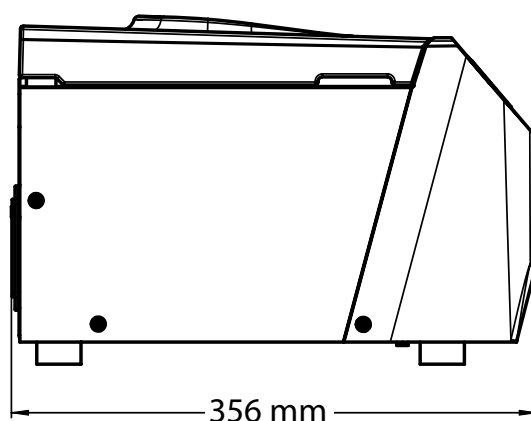
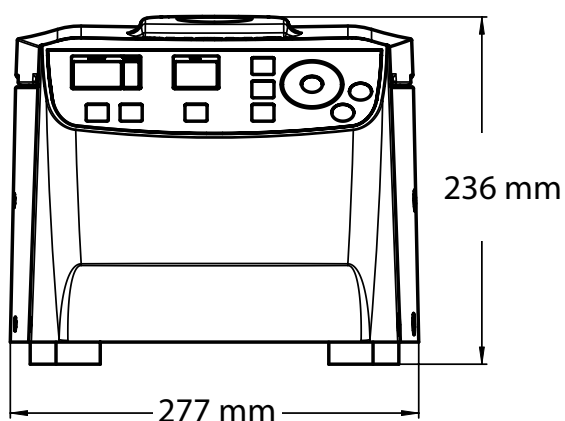
Order No.	Description	Vol./Tube	Diameter	Tube type	No.of tubes/rotor
Without Adapter	Rotor, Angle, 24 × 1.5/2.0 mL, Sealable, V2	1.5/2.0 mL	11 mm	Microtube	24
30130885	Adapter, 1 × 0.5 mL D8 mm, 6/pk	0.5 mL	8 mm	Microtube	24
30130884	Adapter, 1 × 0.2/0.4 mL D6 mm, 6/pk	0.2/0.4 mL	6 mm	Microtube	24

	Order No.	30472303
	Description	Rotor, Angle, 18 × 2 mL SC*
	Max. Speed	13500 rpm
	Max. RCF	15484 × g

*SC-Spin Column

	Order No.	30472304
	Description	Rotor, Hematocrit, 24 × Capillaries, V2
	Max. Speed	13000 rpm
	Max. RCF	16058 × g

Dimensions



FRONTIER™ 5513 High-Speed Micro Centrifuge

Model	FC5513
Speed Range	200 rpm – 13500 rpm; 10 rpm/set
Maximum RCF	17317 × g; 10 × g/set
Maximum Capacity (Rotor)	24 × 1.5/2.0 mL
Temperature Range	Air cool
Running Time	Quick Spin, 10 sec to 99 hr 59 min 59 sec, or continuous
Noise Level	≤ 60 dB(A)
Acc/Dec Levels	10
Allowable Density at Maximum Speed	1.2 g/mL
Allowable Kinetic Energy	2129 Nm
AC Power	230 V ~ 50/60 Hz
Voltage Fluctuation	± 10%
Current Consumption	1.9 A
Power Consumption	170 W
Dimensions (W × D × H)	277 × 356 × 236 mm
Net Weight (with rotor)	12.6 kg
Shipping Dimensions (W × D × H)	370 × 470 × 340 mm
Shipping Weight (with rotor)	14 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 for short runs

Compliance

- **Product Safety:** IEC/EN 61010-1; IEC/EN 61010-2-020
- **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic environments
- **Compliance Mark:** CE

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

CH16E355





Frontier™ 5515 & 5515R

High-Speed Microliter Centrifuges



Smooth and Dependable High-Speed Microliter Centrifuge for Liquid Separation Applications

Frontier 5515 and 5515R microliter benchtop centrifuges provide high-speed operation for spin-down applications requiring a wide variety of tube volumes and capacities. With refrigeration capabilities (FC5515R), 10 acceleration/deceleration settings, multiple safety features, and an unmatched capacity, Frontier provides stable liquid separation for life science applications requiring high-speed operation.

Standard Features Include:

- **Easy-to-Use Control Panel that Supports Simple Operation**—The intuitive control panel with rotary knob puts the centrifuge's simple operations at your fingertips, including the ability to set and recall speed and g-force, as well as control the temperature (FC5515R only).
- **Sophisticated Technology that Drives High-Performance**—A powerful brushless induction motor, 10 acceleration and deceleration settings, and memory for up to 99 commonly-used parameters are a few of Frontier's features that propel high-performance.
- **Several Safety Features that Protect Against Injury**—Among Frontier's safety attributes are a motorized lid locking system and a rotor imbalance sensor that stops the centrifuge if the rotors become imbalanced or sudden shock occurs, protecting the operator from by the high-speed spinning rotors.
- **Seven Rotor Sizes that Provide Flexibility for Varied Centrifugation Needs**—Compatible with seven different rotors, more than any centrifuge in its class, the highly-versatile Frontier can be used for various applications of different volumes.

Frontier™ 5515 & 5515R High-speed Microliter Centrifuges

Easy-to-Use Control Panel

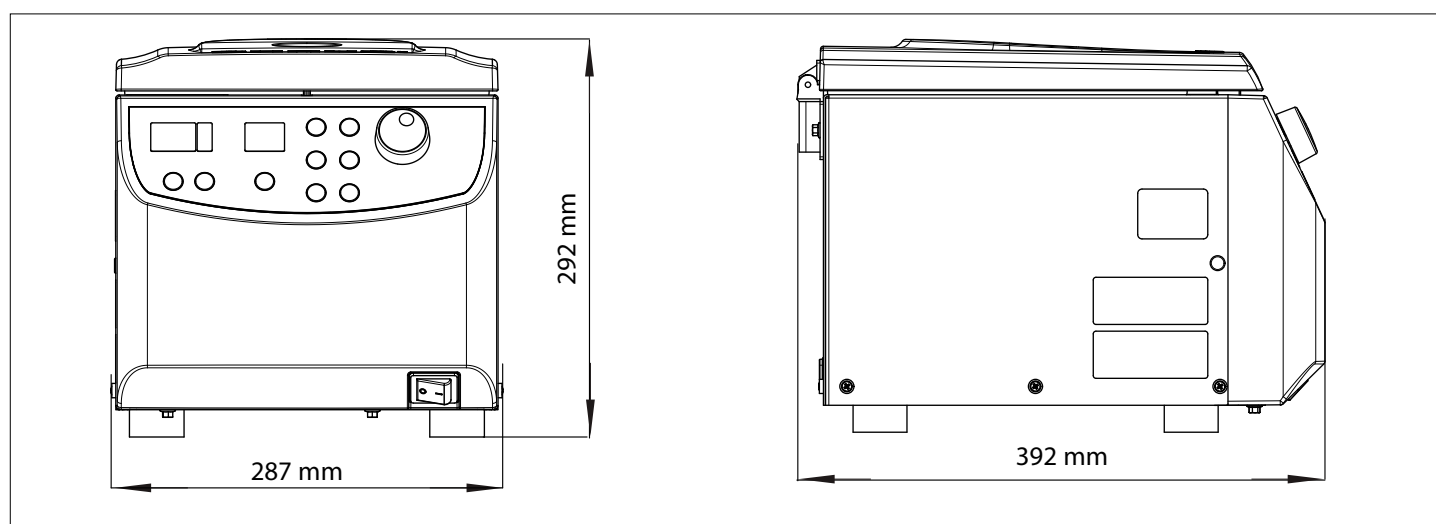
- Easy-to-turn rotary knob for parameter adjustments
- Waterproof keypad provides protection that helps significantly increase the lifespan of the product
- One-touch toggling between speed, g-force, and temperature controls (R model only)
- LCD display which projects information in real-time
- View 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 15,200 RPM in less than 16 seconds
- Maximum g-force of 21,953 RCF
- 10 acceleration/deceleration settings
- 99 memory sets for commonly-used speed, time, and temperature settings (R Model Only)
- R models has refrigeration capabilities from 40°C to -20°C
 - Cools down from 23°C to 4°C in less than 10 minutes
 - Pre-cool feature quickly lowers the temperature of rotor and chamber before a run

Outline Dimensions



Frontier 5515

Safety Features that Prevent Injury

- Motorized lid-locking system prevents centrifuge from opening during operation
- Rotor imbalance sensing system stops the motor should the rotors become imbalanced, protecting the user from spinning rotors

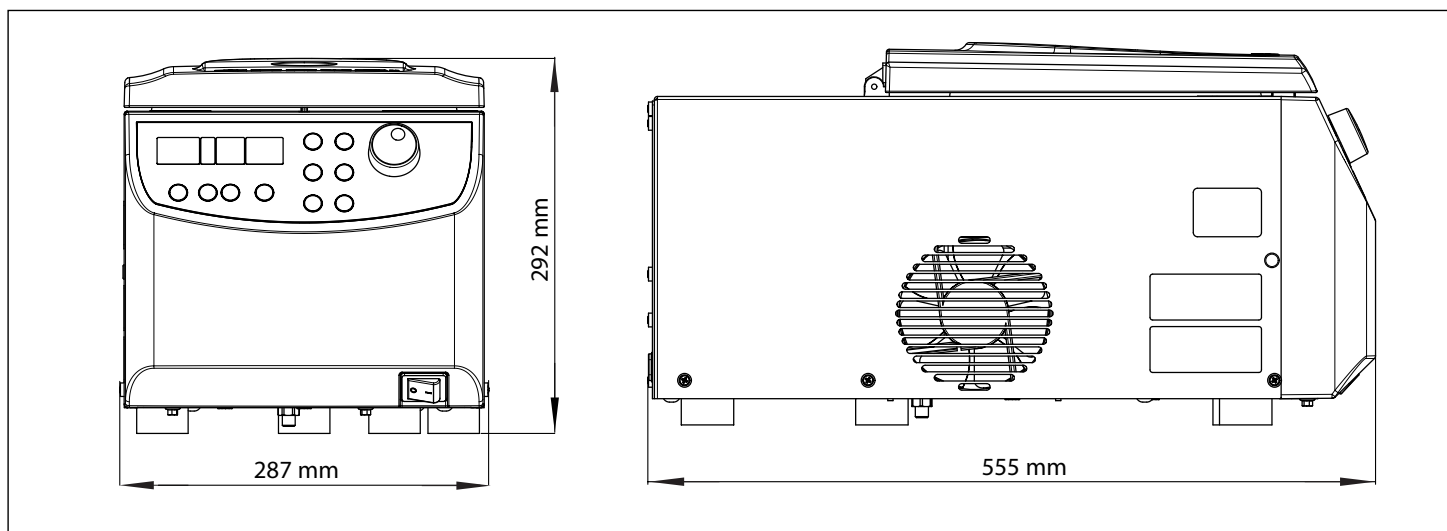


Flexibility for Varied Centrifugation Needs

- Maximum capacity of $44 \times 1.5/2$ mL and 12×5 mL tubes
- Only centrifuge in its class compatible with 6 rotors (7 rotors on 5515 model), including a PCR strip tube rotor
- The most economical centrifuge on the market to include a unique 5 mL tube rotor
- The signature snap-on rotor and lid locking system allows for quick installation of rotors with just one press of a button



Outline Dimensions



Frontier 5515R

Frontier™ 5515 & 5515R High-Speed Microliter Centrifuges

Model	FC5515R		FC5515	
Speed Range	200 rpm - 15200 rpm; 10 rpm/set		200 rpm - 15200 rpm; 10 rpm/set	
Maximum RCF	21953 × g; 10 × g/set		21953 × g; 10 × g/set	
Maximum Capacity (Rotor)	44 × 1.5/2.0mL; 12 × 5mL		44 × 1.5/2.0mL; 12 × 5mL	
Temperature Range	-20° to 40°C, 1°C/set		Air cool	
Running Time	10 sec to 99 hr 99 min 59 sec or continuous		10 sec to 99 hr 99 min 59 sec or continuous	
Noise Level (varies by rotor)	≤ 57 + 2 dB(A)		≤ 60 + 2 dB(A)	
AC Power	230 V/50-60 Hz	120 V/50-60 Hz	230 V/50-60 Hz	120 V/50-60 Hz
Fluctation	± 10%	± 10%	± 10%	± 10%
Current Consumption	2.4 A	5.1 A	1.3 A	2.3 A
Power Consumption	500 W	560 W	270 W	280 W
ECM	EN/IEC 61326-1 Class B emissions, Basic immunity FCC Class B emissions		EN/IEC 61326-1 Class B emissions, Basic immunity FCC Class B emissions	
Dimensions (W × D × H)	287 × 561 × 292 mm		287 × 393 × 292 mm	
Net Weight (without rotor)	77 lb/35 kg		38 lb/17 kg	
Shipping Dimensions (W × D × H)	400 × 660 × 520 mm		400 × 545 × 410 mm	
Shipping Weight (without rotor)	44 kg		20 kg	

Compliance

- **Product Safety:** EN 61010-1:2010, EN 61010-2-020:2006
- **Electromagnetic Compatibility:** EN 61326-1:2006, FCC Part 15 Class B

Frontier™ 5515 & 5515R Rotors and Accessories



Rotors and Adapters that Expand the Versatility of the Frontier FC5515 Series

A variety of rotors and tube adapters can be used in conjunction with the Frontier FC5515 Series, providing centrifugation for samples of various sizes

				
Item	Angle Rotor, 24 × 1.5/2.0 mL	0.5 mL Tube Adapter	0.4/0.2 mL Tube Adapter	
Item Number	30130870	30130885	30130884	
Compatible Tubes	1.5 mL and 2.0 mL	0.5 mL	0.4 mL	0.2 mL
Maximum Number of Tubes	24	24	24	24
Max. RPM	15200 rpm	15200 rpm	15200 rpm	
Max. RCF	21953 × g	19112 × g	21178 × g	17562 × g
Radius	85 mm	74 mm	82 mm	68 mm
Type	Angle Rotor ∠45	—		
Lid/Lid Material/Rotor Material	Snap-on/PEI ² /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+5 °C			

Frontier™ 5515 & 5515R Rotors and Adapters


				
Item	Angle Rotor, 24 × 1.5/2.0 mL, Biocontainment	0.5 mL Tube Adapter	0.4/0.2 mL Tube Adapter	
Item Number	30130871	30130885	30130884	
Compatible Tubes	1.5 mL and 2.0 mL	0.5 mL	0.4 mL	0.2 mL
Maximum Number of Tubes	24	24	24	24
Max. RPM	15200 rpm	15200 rpm	15200 rpm	
Max. RCF	21953 × g	19112 × g	21178 × g	17562 × g
Radius	85 mm	74 mm	82 mm	68 mm
Type	Angle Rotor ∠45	—		
Lid/Lid Material/Rotor Material	Aerosol Tight/Aluminium/Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+5°C			


				
Item	Angle Rotor, 30 × 1.5/2.0 mL, Biocontainment	0.5 mL Tube Adapter	0.4/0.2 mL Tube Adapter	
Item Number	30130872	30130885	30130884	
Compatible Tubes	1.5 mL and 2.0 mL	0.5 mL	0.4 mL	0.2 mL
Maximum Number of Tubes	30	30	30	30
Max. RPM	13500 rpm	13500 rpm	13500 rpm	
Max. RCF	19150 × g	17113 × g	18539 × g	15687 × g
Radius	94 mm	84 mm	91 mm	77 mm
Type	Angle Rotor ∠45	—		
Lid/Lid Material/Rotor Material	Aerosol Tight/PC ³ /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+6 °C			

				
Item	Angle Rotor, 44 × 1.5/2.0 mL	0.5 mL Tube Adapter	0.4/0.2 mL Tube Adapter	
Item Number	30130879	30130885	30130884	
Compatible Tubes	1.5 mL and 2.0 mL	0.5 mL	0.4 mL	0.2 mL
Maximum Number of Tubes	44	44	44	44
Max. RPM	13500 rpm	13500 rpm	13500 rpm	
Max. RCF	17113 × g / 17317 × g	14872 × g / 15687 × g	16705 × g / 16909 × g	13446 × g / 14872 × g
Radius	84mm/85mm	73mm/77mm	82mm/83mm	66mm/73mm
Type	Angle Rotor ∠32/55	—		
Lid/Lid Material/Rotor Material	Snap-on/PP ⁴ /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+6 °C			

				
Item	Angle rotor, 12 × 5 mL, biocontainment	1.5 mL/2.0 mL Tube Adapter	1.8 mL Cryo Tube Adapter	1.0 mL Cryo Tube Adapter
Item Number	30130873	30130886	30130888	30130887
Compatible Tubes	5.0 mL	1.5 mL/2.0 mL	1.8 mL	1.0 mL
Maximum Number of Tubes	12	12	12	12
Max. RPM	14500 rpm	14500 rpm	14500 rpm	14500 rpm
Max. RCF	19978 × g	16687 × g	17627 × g	16217 × g
Radius	85 mm	71 mm	61 mm	69 mm
Type	Angle Rotor ∠45	—		
Lid/Lid Material/Rotor Material	Aerosol Tight/Aluminium/Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+4 °C			

Frontier™ 5515 & 5515R High-speed Microliter Centrifuges

	
Item	Angle rotor, 4 × 8-Place PCR Stripes
Item Number	30130874
Compatible Tubes	0.2 mL PCR 8-strips
Maximum Number of Tubes	4 x 8-place strips
Max. RPM	15000 rpm
Max. RCF	15342 × g
Radius	61 mm
Type	Angle Rotor ∠45
Lid/Lid Material/Rotor Material	Screw/PC ³ /PP ⁴
Lowest refrigerated temperature in FC5515R ¹	+5°C

	
Item	Hematocrit rotor, 24 × Capillaries
Item Number	30130881
Compatible Tubes	Capillaries
Maximum Number of Tubes	24
Max. RPM	12000 rpm
Max. RCF	14970 × g
Radius	93 mm
Type	Angle Rotor ∠90
Lid/Lid Material/Rotor Material	Snap-on/Aluminium/Aluminium

Notes:

1. At room temperature of 23 °C. This is the lowest attainable temperature at which the pre-cooled, refrigerated centrifuge spins at maximum speed with a full load. Lower temperatures can be attained by reducing the speed, number of samples or room temperature.
2. PEI: Polyetherimide
3. PC: Polycarbonate
4. PP: Polypropylene

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

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