



Frontier™ 5306

Mini Centrifuge




Powerful and Convenient Mini Centrifuge for Simple and Rapid Life Science Separation Applications!

The OHAUS Frontier 5306 is a powerful mini centrifuge for simple and rapid liquid separation. The Frontier 5306 includes an 8-position 1.5/2 mL tube rotor as well as a 4-position 8-strip PCR tube rotor that can accommodate 32 individual PCR tubes or 0.2 mL strip tubes. With the included adapters, 0.2 mL and 0.5 mL strip tubes can also be accommodated in the 8 position tube rotor, further increasing its versatility. Frontier 5306 also has a quick release design in which the rotors can be removed and installed without the use of any tools. This centrifuge provides quiet, safe, and easy operation for your everyday quick spin-down applications.

Standard Features Include:

- **A Quiet Motor and Rubber Base Assure Quiet Operation**—With a low voltage power input, quiet motor, and rubber base that absorbs vibrations, Frontier 5306 keeps operational noise to a minimum and reduces disruptions in the laboratory.
- **Multiple Protective Features Ensure the Safety of Centrifuge Operator**—Frontier 5306 has many safety attributes, including a low voltage power input, sturdy lid, and two safety switches which immediately stop the rotors should the lid open while in rotation. An imbalance sensor also stops the centrifuge if the rotors become imbalanced or sudden shock occurs, protecting the operator from being injured by the high-speed spinning rotors.
- **Simple One-Step Operation**—Frontier 5306 takes simple operation to a new level. Once the device is powered on, simply place your sample in the centrifuge, close the lid, and it will begin to rotate. Not even one button press is needed in order to separate your sample.

Frontier™ 5306 Mini Centrifuge

Model	FC5306	
Rotor	Angle Rotor	Tube Bank Rotor
Rotating Speed Scope	6000 rpm	
Centrifugal Force	2000 g	
Rotating Direction	Counterclockwise	
Maximum Capacity	8 × 1.5 ml / 2 ml	4 × 0.2 ml-PCR 8-tube bank
		or 32 × 0.2 ml single centrifugal tube
Adapter	0.2 ml / 0.5ml	—
Accelerating Time	≤2 s	
Decelerating Time	≤3 s	
Drive Mode and Motor	Direct drive, with low noise attributable to rolling bearing	
Power Supply	Input: 100-240V ~ 50/60Hz 1.5A Output: 24V  2.0A	
Dimensions (W × D × H)	150 × 168 × 128 mm	
Net Weight	1.1 Kg (including free-load angle rotor)	
Shipping Dimensions (W × D × H)	216 × 305 × 194 mm	
Shipping Weight	1.9 Kg	

Standard Equipment

Mini Centrifuge , AC adapter, Angle rotor (8 × 1.5 ml / 2 ml), 0.2 ml tube bank rotor for PCR 8-tube bank, Eight 0.5 ml adapters and eight 0.2 ml adapters, Manual

Approvals

- **Product Safety:** IEC/EN 61010-1:2010, IEC/EN 61010-2-020:2006
- **Electromagnetic Compatibility:** FCC Part 15 Class B, ICES-001 Class B, EN 61326-1:2013, Class B, Basic environments, IEC 61326-1:2012, Class B, Basic environments

Rotors

Angle Rotor, 8 x 1.5 ml / 2 ml 30129559

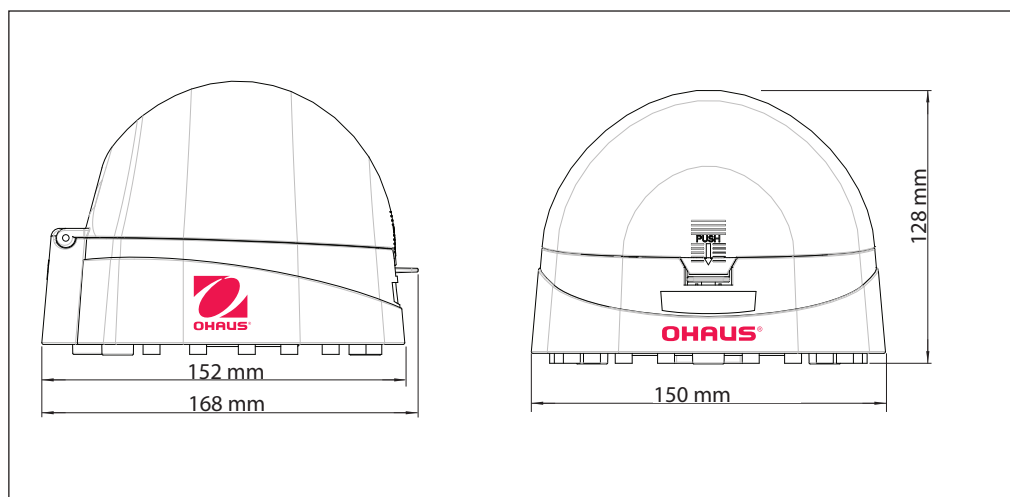
Angle Rotor, 4 x 0.2 ml PCR8 30129560

Accessories

Adapter for 0.2 ml Tube (8PCS/Package) 30129561

Adapter for 0.5 ml Tube (8PCS/Package) 30129562

Dimensions



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Frontier™ 5706

Multi Centrifuge



Reliable and Compact Multi-Function Centrifuge For Standard Life Science Separation Applications

Frontier™ 5706 is a small benchtop multi-function centrifuge ideal for a multitude of spin-down applications. Characterized by reliability, various safety features, the ability to accommodate test tubes of various sizes and intuitive operation, Frontier 5706 was built to meet the basic need for liquid separation in the life sciences.

Standard Features Include:

- **Extremely Simple and Intuitive Operation**—With an easy-to-turn control knob, a large LCD display and the capabilities to set and view both speed in rpm and g-force, obtain precise results and enhanced functionality from this easy-to-use centrifuge.
- **Compatibility with Test Tubes of Various Sizes**—Frontier 5706 can accommodate all standard tube sizes from 1.5 mL to 50 mL, providing centrifugation for a wide variety of applications. It also has a large capacity, and can hold six 50 mL tubes and twelve 15 mL tubes during one process.
- **Several Safety Features that Protect Against Injury**—Among Frontier 5706's safety attributes are a sturdy mechanical lid with locking system and a rotor imbalance sensor that stops the centrifuge if the rotors become imbalanced or sudden shock occurs, protecting the operator from being injured by the high-speed spinning rotors.

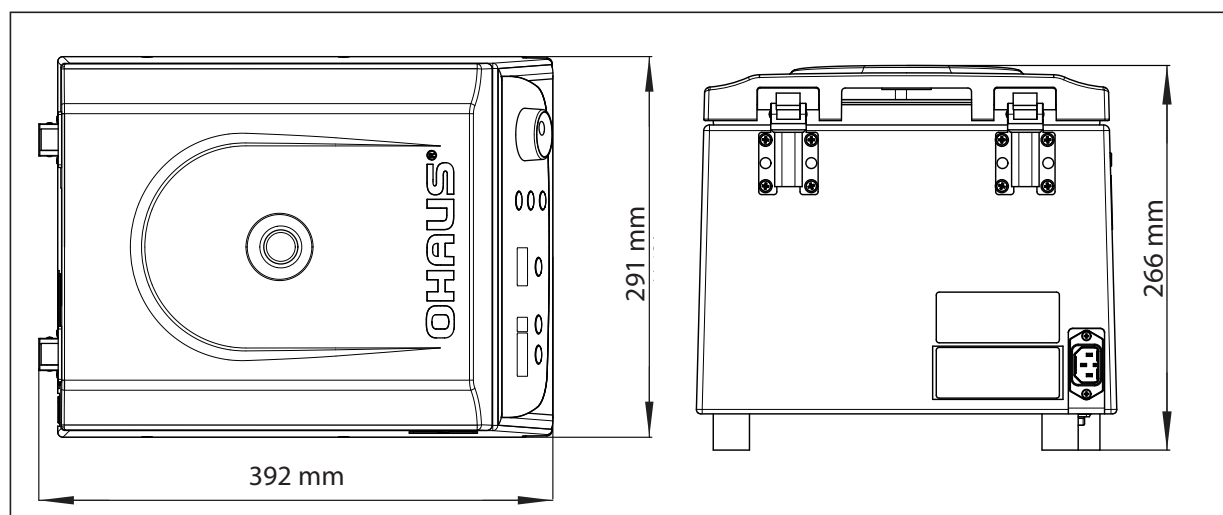
Frontier™ 5706 Multi Centrifuge

Model	FC5706	
Speed Range	200 rpm – 6000 rpm; 50 rpm/increments	
Maximum RCF	4427 x g; 10 x g/set	
Maximum Capacity (Rotor)	6 x 50 mL	
Cooling	Air Cooled	
Running Time	10 sec to 99 hr 99 min 99 sec or Continuous	
Noise Level (Depending on the Rotor)	≤ 60 +2 dB(A)	
AC Power	230 V/50 – 60 Hz	120 V/50 – 60 Hz
Voltage Fluctuation	± 10%	± 10%
Current Consumption	0.55 A	1.1 A
Power Consumption	100 W	100 W
Dimensions (W x D x H)	291 x 392 x 266 mm	
Net Weight (Without Rotor)	10.5 kg	
Shipping Dimensions (W x D x H)	400 x 545 x 410 mm	
Shipping Weight (Without Rotor)	15 kg	

Approvals

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

Dimensions







Frontier™ 5706 Rotors and Adapters









Rotors and Adapters that Expand the Versatility of Frontier FC5706

Various rotors and tube adapters provide FC5706 with the ability to hold tubes of different sizes and capacities.

				
Item	Angle Rotor, 12 × 15 mL	7mL Tube Adapter	5ml Tube Adapter	1.5 mL/2.0 mL Tube Adapter
Item Number	30130877	30130889	30130890	30130886
Compatible Tubes	15 mL	7 mL	5 mL	1.5mL / 2.0mL
Maximum Number of Tubes	12	12	12	12
Max. RPM	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Max. RCF	4427 × g	4265 × g	3621 × g	3058 × g
Radius	110 mm	106 mm	90 mm	76 mm
Type	Angle Rotor ∠32°	—		
Rotor Material	PP ¹	—		

Frontier™ 5706 Rotors and Adapters

					
Item	Angle Rotor, 6 x 50 mL	30 mL Tube Adapter	16 mL Tube Adapter	15 mL Tube Adapter	15 mL RB/ Falcon Tube Adapter
Item Number	30130878	30130891	30130892	30130893	30130894
Compatible Tubes	50 mL	30 mL	16 mL	15 mL	15 mL RB/Falcon
Maximum Number of Tubes	6	6	6	6	6
Max. RPM	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Max. RCF	4427 x g	4306 x g	4145 x g	4225 x g	4185 x g
Radius	110 mm	107 mm	103 mm	105 mm	104 mm
Type	Angle Rotor ∠40°	—			
Rotor Material	PP ¹	—			

	
Item	Swing Out Rotor, 6 x 5 mL
Item Number	30130880
Compatible Tubes	5 mL
Maximum Number of Tubes	6
Max. RPM	6000 rpm
Max. RCF	1878 x g
Radius	105 mm
Type	Swing Out Rotor
Rotor Material	Aluminium

	
Item	Replaceable Buckets, For Swing Out Rotor (2 PCS/Package)
Item Number	30130895

Notes:

1. PP: Polypropylene

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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 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.
- **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 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

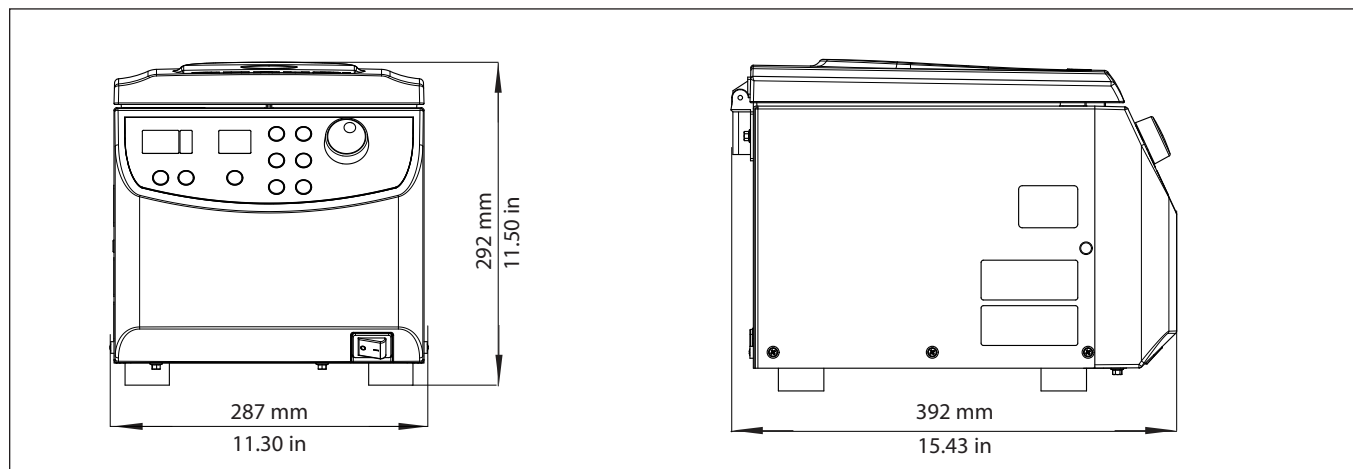
- Easy-to-turn rotary knob for parameter adjustments
- Waterproof keypad provides protection that helps significantly increase the lifespan of the product
- One-touch toggling between speed, g-force, and temperature controls (R model only)
- LCD display which projects information in real-time
- View 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 model 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

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

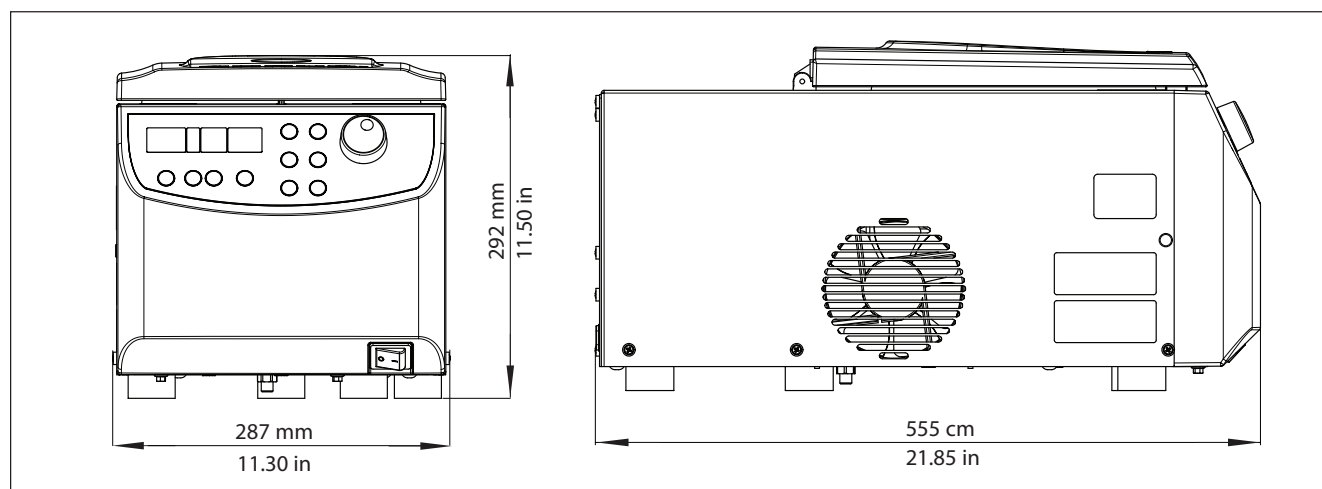


Flexibility for Varied Centrifugation Needs

- 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



Dimensions



Frontier 5515R

Frontier™ 5515 & 5515R High-speed Microliter Centrifuges

Model	FC5515R		FC5515	
Speed Range	200 rpm - 15200 rpm; 10 rpm/increments		200 rpm - 15200 rpm; 10 rpm/increments	
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/Cooling	-20° to 40°C, 1°C/set		Air cooled	
Running Time	10sec to 99hr 99min 59sec or continuous		10sec to 99hr 99min 59sec 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
Fluctuation	± 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
Dimensions (W × D × H)	11.3 × 22.1 × 11.5 in/287 × 561 × 292 mm		11.3 × 15.5 × 11.5 in/287 × 393 × 292 mm	
Net Weight (Without Rotor)	77 lb/35 kg		38 lb/17 kg	
Shipping Dimensions (W × D × H)	15.7 × 26.0 × 20.5 in/400 × 660 × 520 mm		15.7 × 21.5 × 16.1 in/400 × 545 × 410 mm	
Shipping Weight (Without Rotor)	97 lb/44 kg		44 lb/20 kg	

Approvals




- **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 Adapters



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	3.35 in/85 mm	2.91 in/74 mm	3.23 in/82 mm	2.68 in/68 mm
Type	Angle Rotor ∠45°	—		
Lid/Lid Material/Rotor Material	Snap-on/PEI ² /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+6 °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	3.35 in/85 mm	2.91 in/74 mm	3.23 in/82 mm	2.68 in/68 mm
Type	Angle Rotor ∠45°	—		
Lid/Lid Material/Rotor Material	Aerosol Tight/Aluminium/Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+4°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	3.70 in/94 mm	3.31 in/84 mm	3.58 in/91 mm	3.03 in/77 mm
Type	Angle Rotor ∠45°	—		
Lid/Lid Material/Rotor Material	Aerosol Tight/PC ³ /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+7 °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	3.30 in/84mm 3.34 in/85mm	2.87 in/73mm 3.03 in/77mm	3.22 in/82mm 3.26 in/83mm	2.59 in/66mm 2.87 in/73mm
Type	Angle Rotor ∠32°/55°	—		
Lid/Lid Material/Rotor Material	Snap-on/PP ⁴ /Aluminium	—		
Lowest refrigerated temperature in FC5515R ¹	+7 °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	3.35 in/85 mm	2.80 in/71 mm	2.80 in/61 mm	2.72 in/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 Rotors and Adapters

	
Item	Angle rotor, 4 x 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 x g
Radius	2.40 in/61 mm
Type	Angle Rotor $\angle 45^\circ$
Lid/Lid Material/Rotor Material	Screw/PC ³ /PP ⁴
Lowest refrigerated temperature in FC5515R ¹	+2.5°C

	
Item	Hematocrit rotor, 24 x Capillaries
Item Number	30130881
Compatible Model	FC5515
Compatible Tubes	Capillaries
Maximum Number of Tubes	24
Max. RPM	12000 rpm
Max. RCF	14970 x g
Radius	3.66 in/93 mm
Type	Angle Rotor $\angle 90^\circ$
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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