



FRONTIER™ 5513L

High-Speed Micro Centrifuges



Compact Micro Centrifuge with Modern Touch-Wheel Interface for Ideal Routine Centrifugation of Microtubes

Frontier 5513L is a space-saving micro centrifuge capable of spinning 18 x 1.5/2.0 ml microtubes and generating forces up to 15995 x g for basic molecular biology applications like DNA/RNA purification and extraction. Engineered with convenient operation in mind, the FC5513L features a uniquely designed splash-proof front panel with touch-wheel control for quick and easy adjustment.

Features:

- Frontier 5513L includes an ergonomically designed 18 x 1.5/2.0 ml microtube rotor that quickly and easily closes with 1/4 of a turn. Adapters allow for spinning of 0.5 ml or 0.2/0.4 ml microtubes.
- Designed for ease of operation, the FC5513L features convenient control on a protective splash-proof interface, which allows for responsive operation – even when wearing gloves.
- With a small footprint, Frontier 5513L centrifuge is compact enough to save valuable space on the bench, yet large enough to accommodate sufficient number of microtubes ideal for DNA applications.

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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 light blue 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 15994 x g and 14000 rpm
- 10 acceleration/deceleration settings
- 99 memory sets to quickly store and recall commonly used parameters

Safety features that prevent injury

- Rotor imbalance sensing systems stops the unit when it detects an imbalanced load
- Mechanical lid-locking system prevents centrifuge from opening during operation



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Specifications

Model		FC5513L	
Order No.		230V: 83041580	120V: 83041581
Speed Range		200 rpm – 14000 rpm; 10 rpm / increments	
Maximum RCF		15994 x g; 10 x g / increments	
Maximum Capacity (Rotor)		Angle Rotor: 18 x 1.5/2.0 ml	
Temperature Range		Air cooled	
Refrigerant		N/A	
Running Time		Quick Spin, 10 sec to 99 hr 59 min, or continuous	
Noise Level		≤ 57 + 2 dB(A)	
Acc/Dec Levels		10/10	
Allowable Density at Maximum Speed		1.2 g/ml	
Allowable Kinetic Energy		1429 Nm	
AC Power		230 V/50 - 60 Hz	120 V/50 - 60 Hz
Voltage Fluctuation		± 10 %	
Current Consumption		0.8 A	1.7 A
Power Consumption		120 W	130 W
Dimensions (W x D x H)		277 x 351 x 231 mm	
Net Weight (without rotor)		14 kg	
Shipping Dimensions (W x D x H)		360 x 450 x 350 mm	
Shipping Weight (without rotor)		16 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.			

Rotors for FRONTIER™ FC5513L

	Rotor Angle 18 x 1.5/2.0 ml		
	Item No.	83041006	
	Rotor Capacity	18 × 1.5/2.0 ml	
	Rotor Type	Angle, 45°	
	Permissible Net Weight	18 x 3.4 g	
	Lowest Temp. at max. speed	0 °C	
Accessory Specifications	n/a		
Accessory Item No.	n/a	30130884	30130885
Accessory Type	n/a	Adapter	
Max. RPM (FC5513)	14,000		
Quantity in Package	n/a	6/pk	
Max. RCF (FC5513)	15,994 x g	13,803 x g	15,337 x g
Tube Specifications			
Tube Type	Microtube		
Tube volume	1.5/2.0 ml	0.2/0.4 ml	0.5 ml
Tubes per Rotor	24		
Max. Tube Diameter (mm)	11	6	8
Tube Height (mm)	40	45	