



## Ohaus FC5816 Frontier 5000 Series Multi Pro Centrifuge, 6 x 250 ml, 21,379 g - 120v

Frontier 5000 Multi Pro Centrifuges are designed for universal use in research, industrial & clinical laboratories, and can be combined with our rotors & accessories for customized use in specific applications. Available in 5 models with capacities from low microliter to 6x250 ml, and featuring high-speed performance at maximum volume, automatic rotor identification and safety features - these multi-purpose centrifuges are a must for any lab.



Manufacture: Ohaus  
SKU: 30314817  
UPC: 30314817  
Free Ground Shipping  
within the 48  
continental US States

**Please Call  
(800)832-0055**

### Features

Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application  
Frontier 5000 Multi-Pro Centrifuges are designed for universal use in virtually every application in research, industrial & clinical laboratories. Combine with our range of rotors & accessories for customized use in specific applications. Available in 5 models with capacities from low microliter to 6x250 ml - and featuring high speed performance at maximum volume, automatic rotor identification system and safety features, these multi-purpose centrifuges are a must for any lab. **Standard**

#### Features Include:

- Powerful Platform Offers Maximum Flexibility for a Range of Applications Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.
- Intuitively Designed for User-Friendly Operation The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications. Features include automatic rotor recognition and backlit LCD.
- Solid Engineering Ensures Reliability and Durability The performance of these centrifuges is propelled by German engineering, and high quality components for reliable use. Constructed of chemical-resistant stainless steel to ensure durability in lab use.
- Increased Safety With Built-in Protective Features Frontier 5000 Series is equipped with protective features, including automatic over-speed protection, imbalance detection and

self-diagnostic system to ensure reliable use and operator safety.

### **Maximum Application Flexibility**

Choose from five models from small to medium capacity, speed range of 14,000 – 16,000 rpm and non-refrigerated/refrigerated options to suit your application. Ideal for spinning most tubes and bottles in the lab, including microtubes, blood tubes, round bottom tubes, conical tubes and microtiter plates.

### **FC5714 Centrifuge (non-refrigerated)**

- Compatible with up to 9 optional rotors and 77 accessories
- Capacities from microliter to 4×100 ml
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 1.5/2.0 ml tubes

### **FC5718 (non-refrigerated) and FC5718R (refrigerated) Centrifuges**

- Compatible with up to 19 optional rotors and 122 accessories
- Capacities from microliter to 4×100 ml
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 85 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5718R)

### **FC5816 (non-refrigerated) and FC5816R (refrigerated) Centrifuges**

- Compatible with up to 13 optional rotors and 71 accessories
- Capacities from microliter to 6×250 ml
- Improved sample processing through-put with additional rotor for blood collection tubes and standard conical
- High-speed centrifugation (>10000 rpm) from 0.2 ml up to 250 ml tubes
- Temperature variable range of -20 °C to 40 °C (FC5816R)

### **Intuitively Designed for Simple Operation**

Frontier 5000 Series was designed to make lab processes more efficient and easier, and includes many user-friendly features & software that allow for intuitive operation.

- Automatic rotor identification makes switching between applications extremely easy
- Simple one-hand operation enabled by the selection button/rotary knob combination—even with gloves on
- 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. Chemical and corrosion-resistant stainless steel housing ensures durability in lab environments.

- Maintenance-free induction drive
- Thread-free rotor locking mechanism
- Optimized airflow system to keep samples cool (non-refrigerated models)
- Pre-cooling program to quickly reach desired temperature (refrigerated models)
- Chemical and corrosion-resistant stainless steel housing ensures durability in lab environments
- Self-diagnostic program to record usage and error history for easy maintenance and to minimize downtime

### **Safety Features for Increased Security**

These centrifuges are equipped with additional 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 bio-containment rotors to safeguard operators from harmful aerosols

## Specifications

Model	FC5714	FC5718	FC5718R	FC5816	FC5816R
<b>Maximum Speed</b>	14000 rpm 10 rpm/set	18000 rpm 10 rpm/set	18000 rpm 10 rpm/set	15000 rpm 10 rpm/set	16000 rpm 10 rpm/set
<b>Maximum RCF</b>	18624 × g 10 × g/set	23542 × g 10 × g/set	23542 × g 10 × g/set	21379 × g 10 × g/set	24325 × g 10 × g/set
<b>Maximum Capacity</b>	4 × 100ml	4 × 100ml	4 × 100ml	6 × 250ml	6 × 250ml
<b>Temperatur Range</b>	Air cool	Air cool	-20~40°C	Air cool	-20~40°C
<b>Running Time</b>	Short Spin, 10 sec to 99 hr 59 min 59 sec, or continuous				
<b>Noise Level (depending on the rotor)</b>	≤ 63 ± 2 dB(A)	≤ 60 ± 2 dB(A)	≤ 60 ± 2 dB(A)	≤ 61 ± 2 dB(A)	≤ 63 ± 2 dB(A)
<b>Number of Compatible Rotors</b>	9	19	19	13	13
<b>Acc/Dec Levels</b>	Allowable Kinetic Energy				
<b>Allowable Kinetic Energy</b>	5595 Nm	16672 Nm	25111 Nm	34363 Nm	34363 Nm
<b>AC Power</b>	120V ~ 50/60 Hz	120V ~ 50/60 Hz	120V ~ 50/60 Hz	120V ~ 50/60 Hz	120V ~ 50/60 Hz
<b>Current Consumption</b>	2.4 A	4.0 A	6.0 A	4.2 A	7.8 A
<b>Power Consumption</b>	300 W	475 W	660 W	520 W	850 W
<b>Voltage Fluctuation</b>	± 10 %				
<b>Dimensions (W × D × H)</b>	362 x 493 x 330 mm	408 × 499 × 351 mm	407 × 731 × 359 mm	446 × 538 × 354 mm	723 × 538 × 354 mm
<b>Net Weight (without rotor)</b>	30 kg	43 kg	60 kg	52 kg	77 kg
<b>Environment</b>	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, CFC-free refrigeration system, sample temperature indication and standstill cooling (refrigerated models)

### Compliance

- Product Safety: EN 61010-1; EN 61010-2-020
- EMC: EN 61326-1

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