

## Ohaus FC5706 (30130876)

# Ohaus FC5706 Frontier 5000 Series Multi-Function Centrifuge User Manual

Model: FC5706 (30130876)

## 1. INTRODUCTION

The Ohaus FC5706 Frontier 5000 Series Multi-Function Centrifuge is designed for efficient and reliable separation of various samples in laboratory settings. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your centrifuge. Please read this manual thoroughly before operating the device.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the instrument:

- Ensure the centrifuge is placed on a stable, level surface.
- Do not operate the centrifuge with an unbalanced rotor.
- Always close the lid securely before starting a run.
- Do not open the lid until the rotor has come to a complete stop.
- Use only rotors and accessories approved by Ohaus for this model.
- Disconnect power before cleaning or performing maintenance.
- Avoid spilling liquids inside the centrifuge. In case of spillage, clean immediately.
- Wear appropriate personal protective equipment (PPE) when handling samples.

## 3. SETUP

### 3.1 Unpacking

Carefully remove the centrifuge from its packaging. Inspect the unit for any signs of damage during transit. Retain the original packaging for future transport or storage.

### 3.2 Placement

Place the centrifuge on a sturdy, level, and vibration-free workbench. Ensure there is adequate clearance (at least 10 cm) around the unit for proper ventilation. Avoid direct sunlight and areas with extreme temperature fluctuations.

### 3.3 Power Connection

Connect the provided power cord to the centrifuge's power inlet and then to a grounded 120V AC power outlet. Ensure the power switch is in the OFF position before connecting.

### 3.4 Rotor Installation

Open the centrifuge lid. Carefully place the desired rotor onto the motor shaft, ensuring it seats properly. Secure the rotor using the provided rotor nut or tool, tightening it firmly but not excessively. Refer to your specific rotor manual for detailed installation instructions.



Figure 1: Ohaus FC5706 Frontier 5000 Series Multi-Function Centrifuge. The image displays the centrifuge unit with its grey and white casing, a clear lid, and a control panel featuring an LCD display for RPM/RCF and Time settings, along with control buttons for Start, Stop, Door Open, and adjustment knob.

## 4. OPERATING INSTRUCTIONS

### 4.1 Control Panel Overview

The control panel features an intuitive interface for setting and monitoring centrifugation parameters:

- **RPM/RCF Display:** Shows the current rotational speed in Revolutions Per Minute (RPM) or Relative Centrifugal Force (RCF). The "no" and "6000" on the display indicate the current setting.
- **Accel/Decel Display:** Indicates the acceleration and deceleration rates (e.g., "77" and "9" as seen on the display).
- **Time Display:** Shows the set run time in minutes and seconds (e.g., "99:99").

- **Start Button:** Initiates the centrifugation run.
- **Stop Button:** Halts the current run.
- **Door Open Button:** Unlocks and opens the centrifuge lid when the rotor is stationary.
- **Adjustment Knob:** Used to navigate menus and adjust parameter values.
- **RPM/RCF Button:** Toggles between RPM and RCF display and setting modes.
- **Accel/Decel Button:** Allows adjustment of acceleration and deceleration profiles.
- **Time Button:** Allows adjustment of the run time.

## 4.2 Basic Operation

1. Ensure the centrifuge is powered on and the lid is open.
2. Load samples into the rotor buckets, ensuring they are balanced. Use counterweights or balance tubes if necessary.
3. Close the centrifuge lid firmly until it latches.
4. Set the desired parameters (RPM/RCF, Time, Accel/Decel) using the adjustment knob and corresponding buttons.
5. Press the **Start** button to begin the run.
6. Monitor the display for current status.
7. Once the run is complete and the rotor has stopped, press the **Door Open** button to unlock the lid.
8. Carefully remove your samples.

## 4.3 Setting Parameters

To set parameters:

- Press the **RPM/RCF** button to toggle between RPM and RCF mode. Use the adjustment knob to set the desired value.
- Press the **Time** button. Use the adjustment knob to set the desired run time in minutes and seconds.
- Press the **Accel/Decel** button. Use the adjustment knob to select the desired acceleration and deceleration profiles. Higher numbers typically mean faster rates.

# 5. MAINTENANCE

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## 5.1 Cleaning

Regular cleaning ensures optimal performance and longevity:

- Always disconnect the power cord before cleaning.
- Wipe the exterior surfaces with a soft cloth dampened with mild detergent or a laboratory-grade disinfectant. Avoid abrasive cleaners.
- Clean the rotor chamber and rotor regularly to remove any spills or debris. Use a non-corrosive cleaning solution.
- Ensure all parts are completely dry before reassembling or operating the centrifuge.

## 5.2 Rotor Care

Inspect rotors for corrosion, cracks, or damage before each use. Clean rotors according to the manufacturer's instructions. Do not use damaged rotors.

## 5.3 Storage

If storing the centrifuge for an extended period, ensure it is clean and dry. Store in a cool, dry place away from direct sunlight and extreme temperatures. Keep the lid slightly ajar to allow air circulation and prevent moisture buildup.

## 6. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Centrifuge does not power on.	No power supply; power cord loose; power switch off.	Check power connection; ensure switch is ON; check outlet.
Lid does not open.	Rotor still spinning; power failure; lid lock malfunction.	Wait for rotor to stop; check power; contact service if persistent.
Excessive vibration during operation.	Unbalanced rotor/samples; centrifuge not on level surface; damaged rotor.	Balance samples; ensure level placement; inspect rotor for damage.
Error message on display.	Specific error condition (e.g., over-speed, over-temperature).	Refer to the specific error code in the full service manual or contact support.

## 7. SPECIFICATIONS

Key technical specifications for the Ohaus FC5706 Frontier 5000 Series Multi-Function Centrifuge:

Feature	Detail
Model Number	30130876 (FC5706)
Power Supply	120V AC
Display	LCD, backlight, 2 lines
Motor Type	Brushless, quiet motor
Footprint	Small footprint design
Installation	Easy installation design
Package Dimensions	21.25 x 16 x 15.25 inches
Weight	1 Pound (shipping weight, actual unit weight may vary)
First Available Date	June 29, 2018

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

Ohaus products are warranted against defects in materials and workmanship for a specified period from the date of purchase. Please refer to the warranty card included with your product or visit the official Ohaus website for detailed warranty terms and conditions.

## 8.2 Technical Support

For technical assistance, service, or spare parts, please contact your local Ohaus distributor or visit the Ohaus official website for support resources and contact information. When contacting support, please have your model number (FC5706) and serial number ready.

**Ohaus Official Website:** [www.ohaus.com](http://www.ohaus.com)

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Rotor Guide

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- Choose from a range of rotors to be used with Frontier centrifuges to match capacities and flexibility required for your basic to high-performance sample preparation needs
- Designed with usability in mind, the Frontier rotors can be effortlessly installed or removed in a few quick and simple steps, and access has easy access to the samples
- The sturdy rotors are constructed of high-quality materials, built to last through demanding workflows from sub-zero conditions to full-room temperature
- OHAUS Frontier centrifuges are reliable, versatile and ideal for numerous laboratory applications
- Features include small to medium capacity, various speed ranges and non-refrigerated or refrigerated options to suit all requirements

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