

1. Introduction

Thank you for choosing Champion E-33 Series centrifuge from Ample Scientific. Champion E-33 Series features:

- Economical and competitive price
- Temperature controlled motor to extend centrifuge life expectancy
- Well balanced system minimizing vibration and maximize operation safety
- Portable design with its lightweight and durable structure

2. Product Structure

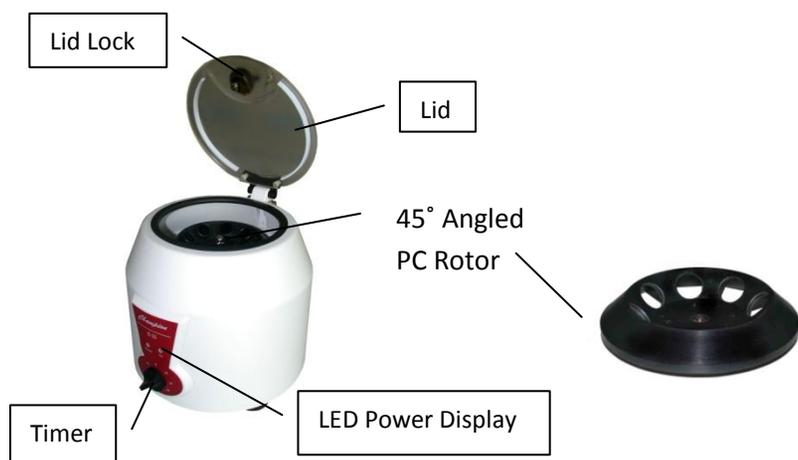


Figure 1 - Product External Structure

3. Installation and Setup

1. Inspect the centrifuge for any damages. Contact distributor for questions regarding damages.
2. Place centrifuge on steady and leveled surface. The area should be well ventilated, and the centrifuge should be kept at least 300mm away from surrounding objects in all directions. Champion E-33 Series is for indoor use only.
3. Verify that there are no loose pieces or packing material in the centrifuge chamber.
4. Before centrifuging, test tubes need to be tightly sealed then placed into rotor buckets. **Do not use buckets from another manufacturer.**
5. Make sure the loads are balanced before centrifugation. Make sure that test tubes opposite of each other are of equal weight and size. Use sample fluid or water to provide balance. Proper sample balancing will improve sample separation and will extend the life of the centrifuge. Glass test tubes are more likely to break if the sample loads are unbalanced. Please install tubes into rotor according to the following configurations:

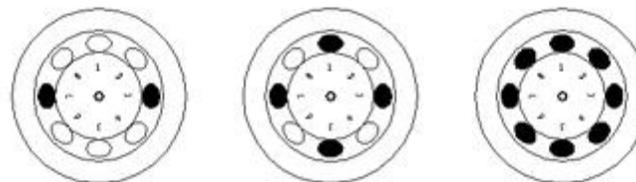


Figure 2 - Sample Balancing Diagram

6. Verify that the power switch is off and the timer is set at 0. Connect the power cord to an appropriate power supply. (see back of centrifuge for appropriate power source)
7. Turn on the centrifuge. Make sure there is little to no vibration and the whirring sound produced is smooth. If there are excessive vibration or abnormal sounds, stop the centrifuge and contact distributor immediately.

4. Maintenance and Care

With proper care and maintenance, E-33 will provide years of service to your laboratory. Please follow the recommended guidelines:

1. Always disconnect the power source before performing cleaning and maintenance
2. Use only quality test tubes. Lower quality glass tubes are likely to fracture, leaking its contents into the rotor buckets even under low rpm.
3. Never force a test tube into the rotor bucket. The rotor buckets are designed to hold most commonly sized tubes, vacutainers, and SST's. Some tubes are too large for the rotor buckets therefore should not be used in the E-33.
4. Keep the rotor buckets clean. If a test tube breaks inside the rotor bucket, either dispose the entire rotor bucket and its content or safely dispose the sample and broken glass. Make sure to thoroughly clean and disinfect the inside and outside of the rotor buckets.
5. It is recommended that the centrifuge to be cleaned at least once every week. Any spilled sample in the chamber and on the centrifuge must be immediately wiped and cleaned. Only use mild cleaning solutions when cleaning the centrifuge. Strong and acidic cleaners are not recommended for cleaning and should never be used on the centrifuge. The rotor and buckets can be autoclaved up to 120°C for sterilization. Consult manufacturer before cleaning or sterilizing the centrifuge with any methods not specified by the manufacturer.
6. The centrifuge should be kept and stored in the following condition for optimal performance:
 - a. Ambient temperature of 0-30°C
 - b. Relative humidity of $\leq 30\%$
 - c. Atmosphere clear of electroconductive dusts, explosive gas, and corrosives

5. Prohibited Usage of Centrifuge

1. Do not store or use the centrifuge in conditions not specified¹.
2. Do not let unqualified persons operate the centrifuge.
3. Do not operate without properly installing the rotor and rotor buckets
4. Do not overload the rotor²
5. Do not use rotor or any accessories that are damaged or corroded.
6. Do not use rotor and accessories not included in the original package or not recommended by the manufacturer. (except for standard test tubes)
7. Do not use chemicals that cause damage and corrosion to the rotor and accessories.
8. Do not centrifuge medium that is flammable or explosive³
9. Do not operate near explosive materials³

Note:

¹ – Incorrect power input will damage the centrifuge, preventing proper operation

² – Overloading the centrifuge will prevent motor from working properly and shortening centrifuge life.

³ – Putting the centrifuge near explosives increases the risk of centrifuge exploding

Champion E-33 Series Centrifuge



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User Guide

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