



Introduction

The LW Scientific Portafuge is a fixed speed centrifuge. The only 8-place portable centrifuge that is designed for spinning blood on the go!

Features

30-minute timer, on/off switch, lid safety switch, 8 tube capacity (3ml -15ml), one-piece plastic housing, high impact plastic view port in lid that allows for observation of samples and strobing for speed calibrations, 110w (12V/8.5A) AC-DC adapter.

Installation and Set-up

- 1 Remove the centrifuge from the shipping container and inspect for any possible shipping damage. If the centrifuge appears to be damaged from shipping, please contact your distributor immediately.
- 2 Read and fill out the warranty card and return the address portion (mail or fax it to LW Scientific). The warranty card documents your purchase. Failure to return the warranty card may void any warranty claims on the unit.
- 3 Place the centrifuge on a sturdy, secure surface (the car's seat or floor board). Verify that there are no loose objects or packing material in the tube chamber.
- 4 The large plastic tube shields (#TS-15ML) are designed to hold large test tubes up to 15ml, and the smaller tube shields (#TS-1375) fit inside the large shields for spinning shorter test tubes (75mm length). Special size rubber tube cushions (#TC-25MM) can be ordered from LW Scientific for a small cost. Verify that all tube shields are installed and balanced (see #7 below).
- 5 Verify that the rear power switch is in the "OFF" position and plug the AC-DC adapter into any cigarette jack located in your vehicle. (Always be sure to operate centrifuge while car is running to avoid draining your car's battery). Do not insert specimen tubes at this time!
- 6 Close the lid, turn the power switch ON, and turn the timer to 5 minutes. If there is a smooth whirring sound and the unit accelerates with little or no vibration, your Portafuge is ready to operate. If there are loud or unusual sounds, or if you experience excessive vibration, DO NOT OPERATE—Contact your dealer or LW Scientific, Inc.
- 7 Spin only balanced loads. Make sure that all tube shields are filled with equal weight tubes. Tubes of equal weight and size should be placed opposite each other. Use water-filled tube to provide balance if necessary. Proper sample balancing will improve sample separation and will extend the life of the centrifuge. Out of balance loads may break glass test tubes.

Care and Maintenance

With proper care and maintenance, the Portafuge will provide years of laboratory service. Please follow the following recommended guidelines:

- 1 Use only quality test tubes which are rated for 1350 g-force or greater.
- 2 Never force a tube into the tube shield. The tube shields were designed to hold the most common sized tubes, Vacutainers, and SST's. Some plastic, conical, and glass test tubes are too large and should not be used in the Portafuge.
- 3 Keep the tube shields clean. If a tube does break, either dispose of the entire tube shield (and remove the opposite shield—for proper balance) or safely dispose of the sample and broken glass and thoroughly clean and disinfect the inside and outside of the tube shield. Additional tube shields are available from LW Scientific.
- 4 Motor and electrical maintenance: The Portafuge utilizes a brushless induction-type motor and its bearings are permanently lubricated.* It should not need servicing for the life of the centrifuge. Likewise, the electrical components were designed for high reliability and should not need regular service. However, if repairs should be needed, please contact LW Scientific, Inc.
*220V Unit has a brushed motor, and brushes should be changed on a regular basis.

Warranty

Your Portafuge is covered by a limited 1-year warranty on parts and labor. If the centrifuge or any of its parts should fail during this period, simply contact LW Scientific, Inc. for a "Return Merchandise Authorization" number for repair or replacement. Any attempts to repair the centrifuge or replace any of its parts without authorization from LW Scientific, Inc. may void the warranty.

Specifications

Nominal speed:	3,300 RPM (+/-5%) (Speed may vary by car model)
Nominal RCF:	1,327 g
Max. Volume:	120 ml
Max. Power:	110 volt or 220 volt
Height:	10 inches
Width:	10 inches
Weight:	11 lbs.
Boxed dimensions:	13 x 13 x 12 inches

Fluid Recommendations:

	Speed	Time
Whole Blood	3300	10 min.

RCF (g's)	Radius (mm)	RPM's
1,327	109	3,300

