The LW Scientific Ultra-8 centrifuge is available in two models, the Ultra-8V (variable speed) and the Ultra-8D (digitally programmable). The Ultra 8-V will separate blood at 3,300 rpm’s, and can be slowed to separate other fluids at lower G-forces such as urine specimens as outlined by C.L.I.A. regulations. The Ultra Digital features programmable controls for any time/speed combination and maximum accuracy.

30-minute timer, on/off switch (indicator light), 8-tube capacity (3-15ml), locking lid, safety switch in lid (unlatching the lid turns the centrifuge off), one-piece metal housing, high impact plastic view port allows for observation of samples and strobing for speed calibrations.

Your Ultra-8 model centrifuge is covered by a limited one 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.

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, level surface. Verify that there are no loose objects or packing material in the tube chamber.

4. The large plastic tube shields (#ULP-TBS7-15PL) are designed to hold large test-tubes up to 15ml, and the smaller tube shields (#ULP-TBS7-03PL) fit inside the large shields for spinning shorter test-tubes (75mm length). Special size rubber tube cushions (#CNP-SPC7-RB25) can be ordered from LW Scientific for a small cost. Verify that all tube shields are installed and balanced (see #7 below).
With proper care and maintenance, the Ultra-8 centrifuge will provide years of laboratory service. Please follow the following recommended guidelines:

1. Use only quality test tubes. Lower quality glass tubes may fracture and release their contents into the tube chamber, even under the normal vibrations and stress loads experienced in typical laboratory centrifugation.

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 Ultra-8.

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 Ultra-8 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.

### Specifications

<table>
<thead>
<tr>
<th>Fluid Recommendations</th>
<th>Speed</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Blood</td>
<td>3300</td>
<td>10 min.</td>
</tr>
<tr>
<td>Urine</td>
<td>1800</td>
<td>10 min.</td>
</tr>
</tbody>
</table>

**Average Speeds for Variable Unit (U8V):**

<table>
<thead>
<tr>
<th>Dial Setting</th>
<th>RPM Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low (6:00 position)</td>
<td>900-1200</td>
</tr>
<tr>
<td>Medium (9:00 position)</td>
<td>1500-1900</td>
</tr>
<tr>
<td>Medium (12:00 position)</td>
<td>2400-2800</td>
</tr>
<tr>
<td>High (3:00 position)</td>
<td>3200-3350</td>
</tr>
</tbody>
</table>

- **Nominal Speed:** 900-3,300 RPM (+/- 5%)
- **Nominal RCF:** 1,327 g
- **Max. Volume:** 120 ml
- **Max. Power:** 110 volt or 220 volt
- **Fuse:** 3 amp / 250 volt
- **Height:** 10.5 inches
- **Width:** 13 inches
- **Depth:** 13 inches
- **Weight:** 15.5 lbs.
- **Boxed Dims.:** 16 x 17 11 inches
- **Boxed Weight:** 17 lbs.

**G-Force:**

- **RCF (g’s):** 78, 122, 175, 239, 275, 312, 395, 487, 590, 701, 823, 955
- **Radius (mm):** 109
- **RPM’s:** 800, 1,000, 1,200, 1,400, 1,500, 1,600, 1,800, 2,000, 2,200, 2,400, 2,600, 2,800

**Average Speeds for Variable Unit (U8V):**

<table>
<thead>
<tr>
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- **Dial Setting:** Low (6:00 position)
- **RPM Range:** 900-1200
- **Dial Setting:** Medium (9:00 position)
- **RPM Range:** 1500-1900
- **Dial Setting:** Medium (12:00 position)
- **RPM Range:** 2400-2800
- **Dial Setting:** High (3:00 position)
- **RPM Range:** 3200-3350

**Nominal Speed:** 900-3,300 RPM (+/- 5%)

**Nominal RCF:** 1,327 g

**Max. Volume:** 120 ml

**Max. Power:** 110 volt or 220 volt

**Fuse:** 3 amp / 250 volt

**Height:** 10.5 inches

**Width:** 13 inches

**Depth:** 13 inches

**Weight:** 15.5 lbs.

**Boxed Dims.:** 16 x 17 11 inches

**Boxed Weight:** 17 lbs.

**Fluid Recommendations:**

- **Whole Blood:** Speed 3300, Time 10 min.
- **Urine:** Speed 1800, Time 10 min.
- **Average Speeds for Variable Unit (U8V):**

**RCF (g’s):**

- **Radius (mm):** 109

**RPM’s:**

- **800**, **1,000**, **1,200**, **1,400**, **1,500**, **1,600**, **1,800**, **2,000**, **2,200**, **2,400**, **2,600**, **2,800**

**Dial Settings:**

- **Low (6:00 position) 900-1200**
- **Medium (9:00 position) 1500-1900**
- **Medium (12:00 position) 2400-2800**
- **High (3:00 position) 3200-3350**