Dual Split-Second Sizer
Instruction Sheet

Getting Started

• To prevent the risk of electrical shock, do not use the Dual Split-Second Sizer outdoors when weather conditions are wet. Never operate unit on a wet floor or work area.

• Prior to plugging the Dual Split-Second Sizer into an electrical outlet, verify the electrical rating, listed on the label on the back of the Dual Split-Second Sizer, is suitable for outlet.

• If the Dual Split-Second Sizer malfunctions or is damaged in any way discontinue use and unplug unit from electrical outlet. Contact an authorized Conwin Service Center for details on how to receive service.

• Never attempt to repair the Dual Split-Second Sizer yourself. Opening the Dual Split-Second Sizer case will automatically void manufacturer warranty. Contact an authorized Conwin Service Center for all repairs.

• When using helium or nitrogen, always secure the cylinder in a safety stand or wall bracket.

1. Hand-tighten the primary regulator to a helium or nitrogen cylinder. Make sure the cylinder is properly secured in a safety stand or wall bracket prior to attaching the primary regulator. Note: Do not open the cylinder valve until Step 6.

2. Push to connect the supply hose to the back outlet on the Dual Split-Second Sizer.

3. Plug the power cord into the side of the unit and into an electrical outlet. (A power strip with surge protector is recommended.) The digital display will appear when unit has power.

4. Plug the foot pedal into the side of the unit.

5. Hand-tighten the SR Latex Outlets.

6. Slowly open the cylinder valve. Make sure the valve is fully opened. The cylinder pressure will read on the gauge located on the regulator. The inlet pressure will read on the second stage regulator gauge, located on the back of the unit.
Setting the Dual Split-Second Sizer

Reference the size setting chart below and set the Dual Split-Second Sizer to the appropriate size and pressure settings. To adjust the inlet pressure, turn the knob up to release it and turn the knob clockwise to increase the pressure and speed of inflation. This will increase the size of the balloon. To decrease the size of the balloon, turn the knob counterclockwise. Press the knob down to lock it in place after making the desired setting.

Mode Settings
LED will light to indicate which mode the Dual Split-Second Sizer is set to. (see photo #2)

1. Press-fit the Double Bubble Outlet hose to the left outlet.
2. Set the Dual Split-Second Sizer to MODE 1 on the control panel. Reference the following chart to set the unit to properly inflate the balloons.
3. Place the 11” balloon over the blue hose. 
4. Place the 16” balloon over the 11” balloon and the yellow hose. Hold firmly to prevent helium from escaping during the inflation process.
5. Tap the foot pedal to inflate the balloons. After the balloons are fully inflated, pinch the neck of the balloons together and remove the Double Bubble outlet quickly to prevent helium from escaping.

Automatic Foil Outlet Instructions
Place the foil balloon over the inflating outlet. Pinch the neck of the balloon between thumb and forefinger and press down on the outlet. Support the foil balloon in an upright position to insure the neck of the balloon does not hold over the outlet and restrict the flow of helium. When the balloon has reached the proper pressure, the inflator will automatically shut off the helium flow.

Remove the balloons from the outlet and attach a ribbon and a balloon weight.

Double Bubble Balloon Size Chart

<table>
<thead>
<tr>
<th>Inside Balloon: 11”</th>
<th>Outside Balloon: 16”</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 PSI</td>
<td>70 PSI</td>
</tr>
<tr>
<td>Left outlet, blue hose,</td>
<td>Right outlet, yellow hose,</td>
</tr>
<tr>
<td>Dual Size Setting: 1.1 Seconds</td>
<td>Dual Size Setting: 2.5 Seconds</td>
</tr>
</tbody>
</table>

Manual Override Latex Outlet Instructions
Press push valve down to inflate individual balloons to any size without changing the digital size setting. The extension tip is available to inflate 5” and entertainer balloons.

Double Bubble Inflation Instructions

1. Place the 11” balloon over the inflating outlets of the Dual Split-Second Sizer. Attach the yellow hose to the right outlet and the blue hose to the left outlet.
2. Place the foil balloon over the inflating outlet. Pinch the neck of the balloon between thumb and forefinger and press down on the outlet. Support the foil balloon in an upright position to insure the neck of the balloon does not hold over the outlet and restrict the flow of helium. When the balloon has reached the proper pressure, the inflator will automatically shut off the helium flow.
3. Place the 11” balloon over the 11” balloon and the yellow hose. Hold firmly to prevent helium from escaping during the inflation process.
4. Place the 16” balloon over the 11” balloon and the yellow hose. Hold firmly to prevent helium from escaping during the inflation process.
5. Tap the foot pedal to inflate the balloons. After the balloons are fully inflated, pinch the neck of the balloons together and remove the Double Bubble outlet quickly to prevent helium from escaping.

Tying Double Bubble Balloons

1. Pull the neck of the inside 11” balloon while pinching the neck of the 2 balloons together.
2. Sketch the neck of the inside 11” balloon around the neck of the outside 16” balloon.
3. Tie off the balloon.

60/40 Helium/Air Outlet Settings

<table>
<thead>
<tr>
<th>BALLOON SIZE</th>
<th>HELIUM 1 Outlet</th>
<th>HELIUM 2 Outlets</th>
<th>NITROGEN 1 Outlet</th>
<th>NITROGEN 2 Outlets</th>
<th>AIR COMPRESSOR 1 Outlet</th>
<th>AIR COMPRESSOR 2 Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>5”</td>
<td>N/A</td>
<td>0.2 Seconds</td>
<td>N/A</td>
<td>0.2 Seconds</td>
<td>70 PSI</td>
<td>70 PSI</td>
</tr>
<tr>
<td>9”</td>
<td>N/A</td>
<td>0.6 Seconds</td>
<td>70 PSI</td>
<td>0.6 Seconds</td>
<td>70 PSI</td>
<td>70 PSI</td>
</tr>
<tr>
<td>11”</td>
<td>0.9 Seconds</td>
<td>1.0 Seconds</td>
<td>70 PSI</td>
<td>1.0 Seconds</td>
<td>70 PSI</td>
<td>70 PSI</td>
</tr>
<tr>
<td>16”</td>
<td>2.6 Seconds</td>
<td>3.2 Seconds</td>
<td>70 PSI</td>
<td>3.2 Seconds</td>
<td>70 PSI</td>
<td>70 PSI</td>
</tr>
</tbody>
</table>

60/40 Helium/Air Outlet Settings

<table>
<thead>
<tr>
<th>BALLOON SIZE</th>
<th>60/40 HELIUM/AIR OUTLET 1 Outlet</th>
<th>60/40 HELIUM/AIR OUTLET 2 Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>11”</td>
<td>4.6 Seconds</td>
<td>4.9 Seconds</td>
</tr>
<tr>
<td>16”</td>
<td>80 PSI</td>
<td>80 PSI</td>
</tr>
</tbody>
</table>

The following settings should be used as guidelines for the using the optional 60/40 Helium/Air Outlet with the Dual Split-Second Sizer. The 60/40 Helium/Air Outlet is recommended for use with 16” or larger balloons. (See back page for details.)
Air Compressor Recommendations

Most air compressors are factory set to automatically cycle on at 90 PSI and automatically cycle off at 120 PSI. The Dual Split-Second Sizer must have a steady supply of air or gas to produce equal size balloons. For accurate sizing, it is essential to work within the limits of the cubic foot per minute capacity of the air compressor.

Air Compressor Required Specifications
• Primary Moisture Filter
• 20 Gallon Storage Tank
• Cycle Pressure: 90 PSI On - 120 PSI Off
• Compressed Air Availability: 6.5 Cubic Foot/Minute @ 90 PSI

Important Guidelines When Using an Air Compressor
• Compressor must build up the tank pressure before inflating balloons.
• The output setting on the air compressor should not exceed 80 PSI. If the compressor is set higher than 80 PSI, the Dual Split-Second Sizer will out-perform the compressor’s storage tank capacity.
• After each job, blow down the compressor to remove water collected in the tank during compression. The Dual Sizer will require factory rework and recalibration if moisture enters its system.
• Power surges will affect the Dual Split-Second Sizer accuracy - line voltage must be steady at 120 volts.

Shutting Down the Dual Split-Second Sizer
1. Close the cylinder valve and turn the air compressor off.
2. Press down the foot pedal to cycle the system until all the pressure has been released from the unit.
3. Disconnect the supply hose from the back of the sizer. Remove regulator from the cylinder.
4. Unscrew the inflating outlets and place them in the compartment located in the lid of the carrying case.
5. Pack the Dual Sizer, supply hose, power cord, and regulator in carrying case.

Dual Split-Second Sizer Accessories

The Insider Balloon Stuffing Tool
The Insider Balloon Stuffing Tool is an accessory item for Conwin’s automatic sizing inflators. This fast and easy-to-use tool efficiently fills large balloons with the maximum number of small balloons. The Insider can be clamped to any convenient table or workstation. Conwin # 85900

HI-FLOAT® Outlet
The hand-tight HI-FLOAT® Outlet enables the user to inflate balloons filled with HI-FLOAT® neck up. This prevents any HI-FLOAT® from getting into the Dual Split-Second Sizer. Conwin # 36320

60/40 Helium-Air Outlet
The 60/40 Helium/Air Outlet enables the user to inflate 14” or larger balloons with a mixture of 60% helium and 40% air. The 60/40 Helium/Air Outlet easily attaches to the Dual Split-Second Sizer with a hand-tight connection. Conwin # 36310

Air Compressor Hook-Up
The Air Compressor Hook-Up, with quick-disconnect fittings, allows user to operate Dual Split-Second Sizer up to 12-ft. away from the compressor. Hook-Up air line also includes a filter that prevents dirt and moisture from entering the inflator. Conwin # 36340

He/N2 Quick Switch
The He/N2 Quick Switch allows the user to switch from helium to nitrogen by turning the knob. Exclusively designed to be used with Conwin’s Duplicator 2 and Dual Split-Second Sizer models that feature the second stage regulator separate from the supply line and primary regulator. Conwin # 36350

60/40 HI-FLOAT® Adapter
The new 60/40 HI-FLOAT® Adapter combines the benefit of the HI-FLOAT® Outlet with the cost-saving feature of the 60/40 Helium-Air Outlet. Conwin # 36330

60/40 He/N2 Quick Switch

Service & Warranty
For assistance with service & repair issues, or for warranty information, please visit ConwinOnline.com, or call (818)246.9233

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