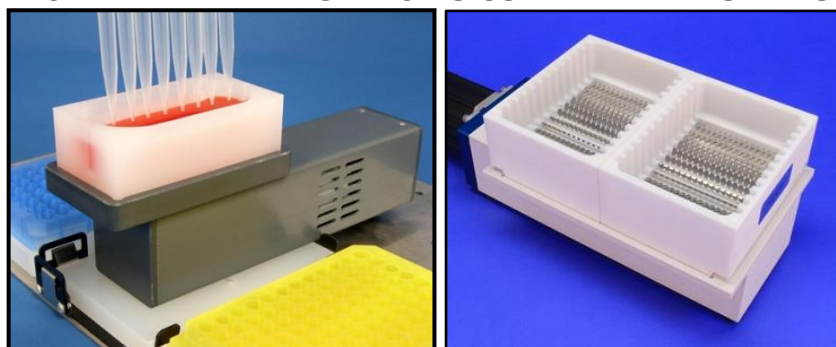


**CARE AND USE OF BUBBLE PADDLE RESERVOIRS USED WITH MAGNETIC TUMBLE STIRRERS**



**Figure 1. Tumble Bubble Paddle Reservoirs with Magnetic Tumble Stirrers: On the left, VP 756B shown with VP 710D2 and on the right, two VP 752D-SBS with VP 710C5.**

**List of Tumble Bubble Paddle Reservoirs**

<b>Part Number</b>	<b>Description</b>
<b>VP 756B series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 8 well format, driven by Tumble Stirrer, made from Polypropylene, Delrin or PTFE
<b>VP 750-13 series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 12 well format, driven by Tumble Stirrer, made from Polypropylene, Delrin or PTFE
<b>VP 750 series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 96 well format, driven by Tumble Stirrer, portrait position, made from Polypropylene, Delrin or PTFE
<b>VP 750-ECON-6 series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 96 well format, driven by Tumble Stirrer, made from Polypropylene disposable reservoir and re-useable polycarbonate Bubble Paddle Frame.
<b>VP 751 series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 96 well format, driven by Tumble Stirrer, landscape position, made from Polypropylene, Delrin or PTFE
<b>VP 755D series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 384 well format, driven by Tumble Stirrer, portrait position, made from Delrin
<b>VP 752D series</b>	Bubble Paddle Reservoir, for keeping cells/particles in suspension, 384 well format, driven by Tumble Stirrer, landscape position, made from Delrin

### List of Magnetic Tumble Stirrers

<b>VP 710D3</b>	Magnetic Multi-stirrer, 7.6cm long stirring deck, stirs certain Bubble Paddle Reservoirs (VP 750 series, VP 755D series, and VP 756B series) by tumble stirring, racks of tubes or vials and syringes by vortex stirring and small to large vessels by horizontal stirring. Does not stir entire microplates. Separately available accessories required for particular stirring applications.
<b>VP 710C5</b>	Magnetic Tumble Stirrer, 14cm long stirring deck, stirs standard and deep well microplates, racks of tubes or vials, syringes and Tumble Bubble Paddle Reservoirs listed above
<b>VP 710E5</b>	Magnetic Tumble Stirrer, 54cm cm long stirring deck, stirs standard and deep well microplates, racks of tubes or vials, syringes and Tumble Bubble Paddle Reservoirs listed above

### CARE AND USE

1. To sterilize the Bubble Paddle Reservoir and the Bubble Paddle(s), use the method appropriate for the Reservoir material:
  - a. Delrin:
    - i. Treat with 10% bleach followed by rinsing with alcohol and air drying.
    - ii. Do not autoclave or dry heat sterilize.
  - b. Polypropylene:
    - i. Treat with 10% bleach followed by rinsing with alcohol and air drying.
    - ii. Can autoclave.
    - iii. Do not dry heat sterilize. Temperatures above 121°C will soften the plastic.
    - iv. Polypropylene Reservoir that is part of VP 750-ECON-6 is disposable and should just be replaced with new sterile one. Bubble Paddle Frame can be autoclaved.
  - c. PTFE:
    - i. Treat with 10% bleach followed by rinsing with alcohol and air drying
    - ii. Can autoclave or dry heat sterilize.
2. To use the Bubble Paddle Reservoir to mix particulate solutions:
  - a. Place the Bubble Paddle Reservoir on the Magnetic Tumble Stirrer stirring deck. Make sure the Bubble Paddle Reservoir is setting flat and secure.
  - b. Set the speed control knob of the Magnetic Tumble Stirrer to 0. Turn ON the power switch. Slowly increase the speed until achieving the desired level of mixing.
  - c. Carefully add the sample suspension of particulates to the Reservoir after the bubble paddles are turning. If it is desirable to have the liquid suspension in the Reservoir prior to mixing, carry out a quick test to make sure the bubble paddle(s) can resuspend the particulates from the reservoir bottom. First turn the Stirrer OFF and let the particulates settle. Then turn the Magnetic Tumble Stirrer ON again and make sure the suspended particulates are again evenly distributed.

3. Always turn the Magnetic Tumble Stirrer off with the power switch. Never leave the unit ON with the speed control knob turned to 0 for long periods of time.  
Cleaning: The reservoir is made of Delrin, polypropylene or PTFE, and the paddles are made of stainless steel or stainless steel coated with parylene (for use with magnetic beads) with PTFE bearings. Use a mild detergent to clean the reservoir and the paddles.
4. For mixing solutions other than general aqueous buffers, see chemical compatibility information the following link for the materials that part of the Bubble Paddle Reservoir:  
<http://www.coleparmer.com/techinfo/chemcomp.asp>

## **WARRANTY**

V&P Scientific, Inc. warrants this product to be free from defects in material and workmanship when used under normal laboratory conditions for one year. This warranty begins from the date of delivery by V&P Scientific.

In the event this product fails under normal laboratory conditions within the specified period of time because of a defect in material or workmanship, V&P Scientific will, at its option, repair or replace the product. Damage to the product caused by user negligence is not covered.

Please keep the special shipping carton in case the unit needs to be shipped back to V&P Scientific. Please contact V&P Scientific at the address above for return authorization and shipping instructions.

This warranty is made in lieu of other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose. V&P Scientific shall not be liable for loss or damages arising from the use of these products nor for consequential damages of any kind.

If further technical assistance is required, please contact V&P Scientific, Inc. at 858-455-0643 or [sales@vp-sci.com](mailto:sales@vp-sci.com).