CARE AND USE OF 8 CHANNEL MAGNETIC CLUTCH BUBBLE PADDLE RESERVOIR SYSTEM

Motor Control Unit VP 761-3 Used with VP 756C-1 Series Magnetic Clutch Bubble Paddle Reservoirs: VP 756C-1, VP 756C-1PP, VP 756C-1PTFE, VP 756C-1PTFE100

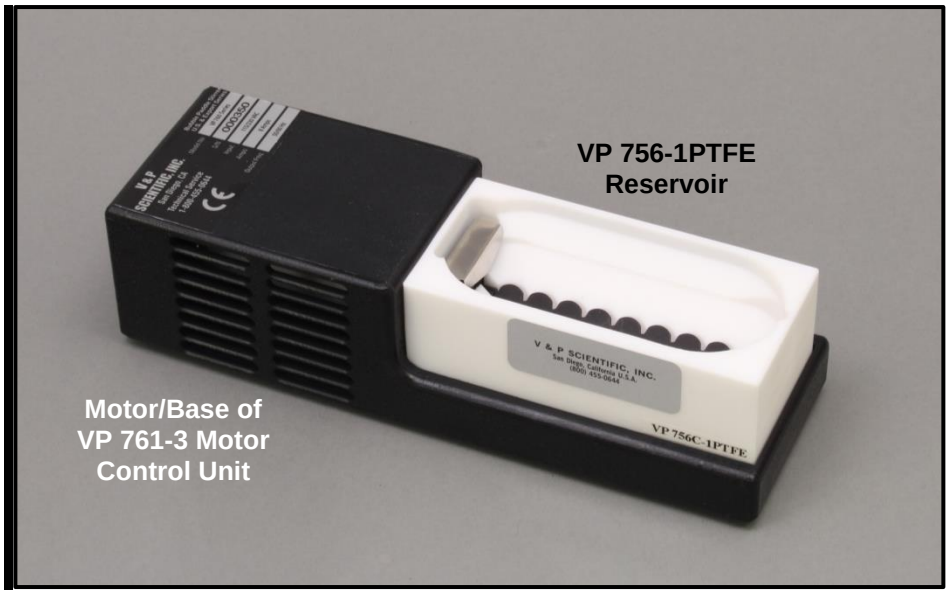

Figure 1. The Magnetic Bead Bubble Paddle Reservoir System is composed of a VP 756C-1 series Magnetic Clutch Bubble Paddle Reservoir and a VP 761-3 Motor Control Unit (only motor/base part shown).

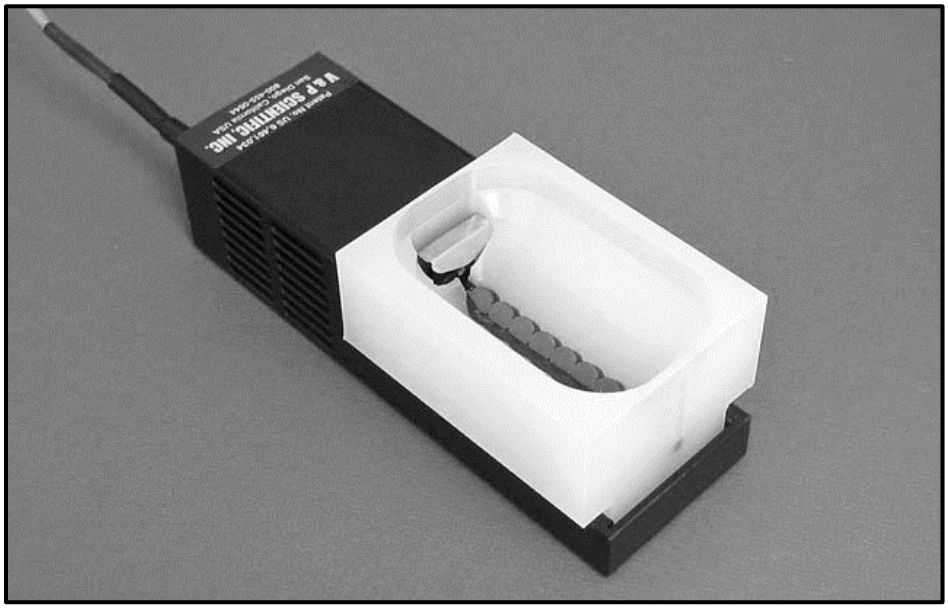

Figure 2. The VP 761-3 Motor Control Unit shown with the VP 756C-1PTFE100 Reservoir.

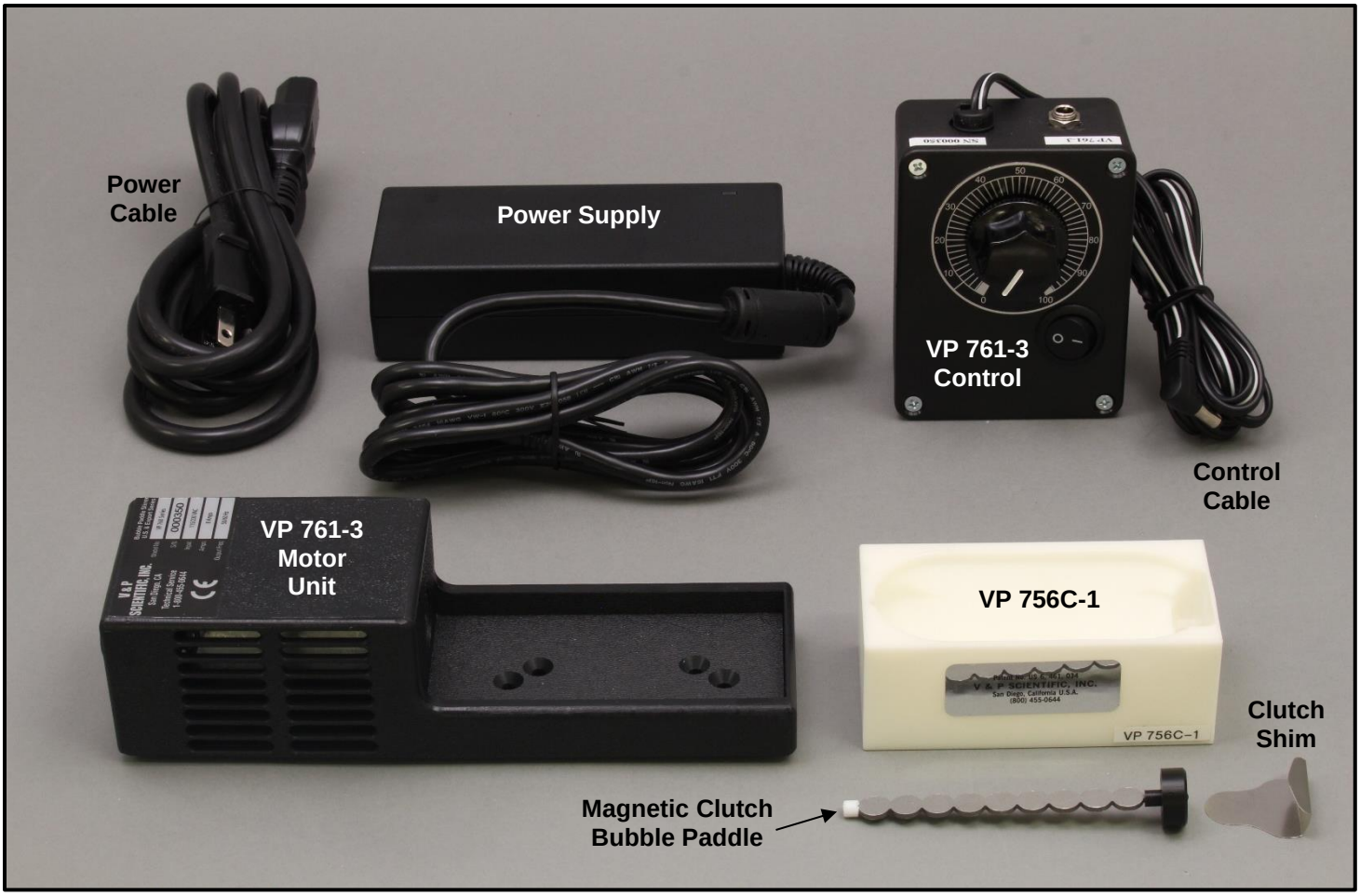

Figure 3. Parts of the VP 761-3 Motor Control Unit shown with the Bubble Paddle removed.

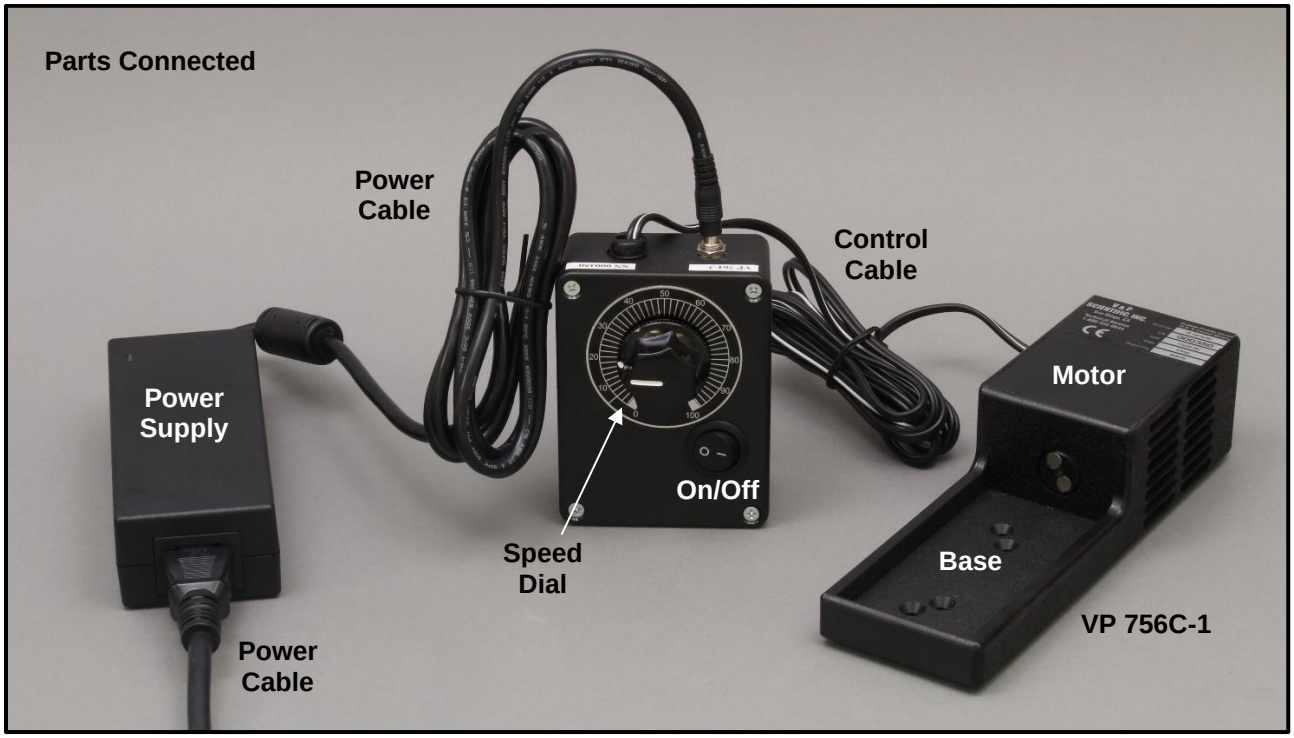

Figure 4. Parts of the VP 761-3 Motor Control Unit shown connected.

1. Connect all the parts of the Control and Motor/Base as shown in Figure 4. Plug power cord into power receptacle (, 100-240 Volts, 50/60 Hz).

2. If using with manual pipettor position the pipet tips to be aligned with the notches in the bubble paddles and the depressions in the VP 756C-1 series Bubble Paddle Reservoir (see Figure 5). If tips make contact with moving paddle, paddle will stop momentarily until tips are moved.

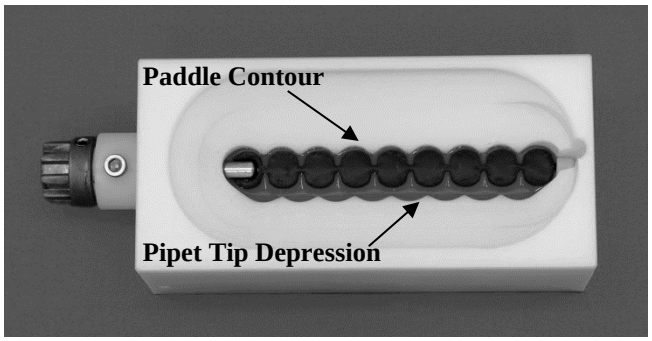

Figure 5. Close-up view of a Bubble Paddle Reservoir.

3. If using on a robotic workstation that uses a SBS microplate holder, order the Bubble Paddle Reservoir system with a VP 581B, a polypropylene SBS sized adapter. Place the VP 761-3 motor assembly with the attached VP 581B on the robot deck in a microplate holder (see Figure 6). Position the robot pipet tips as described above in step 2.

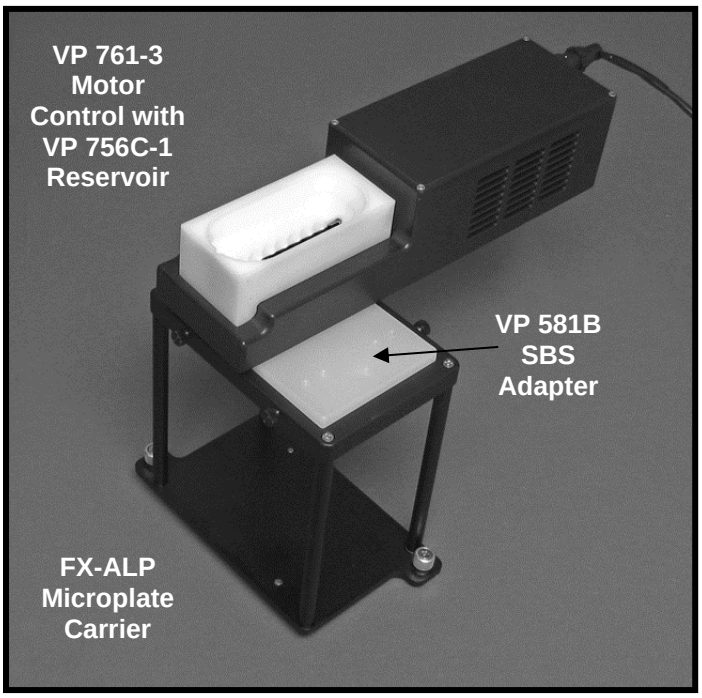

Figure 6. Bubble Paddle Reservoir positioned on a Beckman robot
FX-ALP microplate carrier using the VP 581B, a polypropylene SBS sized adapter.

4. To remove the VP 756C-1 series Reservoir from the VP 761-3 motor simply lift the reservoir up.

5. **Do not use the speed controller to stop the stirrer. Use the on/off switch.**

6. **Do not operate dry as this will cause undue wear. Always operate with liquid.**

7. Operate at speeds and liquid levels that do not aerosolize the liquid. At lower liquid levels use slower speeds.

8. The VP 756C-1 series Bubble Paddle Reservoir can be cleaned with detergents and rinsed with distilled water and ethanol/isopropanol. These operations can be done while the reservoir unit is assembled (Bubble Paddle in place). The reservoir can also be disinfected by soaking in a 10% bleach solution for 5 minutes followed by sterile water rinses and an additional rinse in alcohol. The VP 756C-1 series Bubble Paddle Reservoir and the Bubble Paddle(s) may be sterilized with the following treatments depending on the reservoir material:
    a. Delrin (Acetal): Rinse with 10% Bleach, followed by sterile water and alcohol.
    b. Polypropylene: Same as above or autoclave
    c. PTFE: Same as above or autoclave

SAFETY PRECAUTIONS

The use of motor controls, like that of all utilization of concentrated power, is potentially hazardous. The degree of hazard can be greatly reduced by proper design, selection, installation, and use, but all hazards cannot be completely eliminated.

The following safety precautions must be observed during all phases of installation, operation, service, and repair of this motor control product. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the products. V&P Scientific assumes no liability for the customer's failure to comply with safety requirements and practices.

WARNING
To avoid personnel injury caused by electrical shock, do not remove the cover of the control when the power is ON.

CAUTION
Do not disconnect motor during operation. Otherwise, over-current breakdown may result.

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 below 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 assistance is required, contact V&P Scientific, Inc. 858-455-0643 or sales@vp-sci.com