Instruction Manual for Mixing Station

Installation and Operation

1. Open the box.

2. First remove the selector knob by pulling straight off. Then remove the dispenser cover.

3. Both the units can be installed together or individually. In case you want to connect the units together, remove the cap from any one of the units as shown in the figure and then screw both units together.
4. Use the cabinet back as a template to mark the correct spacing of the plug holes.

5. Slide key holes in cabinet back over screw heads, tighten screws, then install bottom screw. Fix the panel for 4-4 as shown in picture.

6. Install short, low flow discharge tube on 4-4 outlet.
7. Select desired metering tips for product concentrate inlets. Push each tip firmly into hose barb. Refer to tip selection guide below. NOTE: A clear tip is provided and must be installed in any unused inlet barb for unit to function properly.
Metering tips for Unitor™ Mixing Stations

The final concentration of the dispensed solution is related to both, the size of the metering tip opening, and the viscosity of the liquid being siphoned. As dilution can vary with water temperature and pressure, the chart below should be viewed as a guideline.

**For the 4 x 4 litre/minute unit**

<table>
<thead>
<tr>
<th>Product</th>
<th>Metering Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>EasyClean Floor &amp; Hard Surface (Product No - 778843)</td>
<td>Pink</td>
</tr>
<tr>
<td>EasyClean Window &amp; Mirror (Product No- 778847)</td>
<td>Pink</td>
</tr>
<tr>
<td>EasyClean Basin and Toilet Bowl (Product No - 778851)</td>
<td>Pink</td>
</tr>
<tr>
<td>EasyClean Cleaning and Disinfection** (Product No - 778845)</td>
<td>Purple/Pink</td>
</tr>
</tbody>
</table>

**For the 4 x 14 litre/minute unit**

<table>
<thead>
<tr>
<th>Product</th>
<th>Metering Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>EasyClean Floor &amp; Hard Surface (Product No - 778843)</td>
<td>Yellow</td>
</tr>
<tr>
<td>EasyClean Window &amp; Mirror (Product No- 778847)</td>
<td>Yellow</td>
</tr>
<tr>
<td>EasyClean Basin and Toilet Bowl* (Product No - 778851)</td>
<td>Clear</td>
</tr>
<tr>
<td>EasyClean Cleaning and Disinfection** (Product No - 778845)</td>
<td>Brown/Yellow</td>
</tr>
</tbody>
</table>

*WSS does not recommend Basin and Toilet Bowl cleaner for 4 x 14 litre units so please use the CLEAR tip. A CLEAR tip must be installed in any unused inlet barb for unit to function properly.

** Cleaning & Disinfection - For hospital, use Purple (4 x 4 litre unit) and Brown (4 x 14 litre unit) tips. For Galley & other areas use Pink (4 x 4 litre unit) and Yellow (4 x 14 litre unit) tips.
8. Install chemical inlet tubing.

9. Install long high flow discharge tube.

10. Water supply connection—Screw the hose connector as shown in the figure. Reinstall the cover and the selector knob.
11. Make a hole in the cap (9 mm drill) for each chemical suction tube. Slide the tubes through the holes. Install the ceramic weight and suction filter on the tubes, then fit the cap to the drum.

12. The unit is now ready. Turn on water supply. Purge air from system by briefly depressing the flow activating devices.
13. You can select up to 4 different chemicals through the selector knob. To confirm which knob position corresponds to which chemical please check the numbering on the orifice (where chemical suction tubes are connected). For example, if the suction tube from Easyclean Cleaning & Disinfection is connected to orifice 1, then knob position 1 will give you Easyclean Cleaning & Disinfection and so on.

Tip: For ease of use you can also mark the knob positions with the chemical name so that you don’t have to check the orifice numbering again.

14. For bottle activated units, insert a spray bottle over the short discharge tube and lift lever to start flow. To stop flow, lower bottle from dispenser.
QDV Parts Diagram/List:

1. 238100  Strainer washer
2. 10082896  Swivel stem (molded)
3. 100823935  Swivel collar (molded)
4. 10079003  Magnet cover with chain slot
5. 10079000  Magnet
6. 10079011  Spring
7. 90074612  Ball chain w/sleeve
8. 10075980  Valve parts kit
   a. diaphragm
   b. armature
   c. spring
   d. valve bonnet
9. 10075925  Pipe plug, 3/8"
10. 282GB  QDV assy (2 x 4LPM 2 x 14LPM)
11. 283GB  QDV assy (3 x 4LPM 1 x 14LPM)
12. 284GB  QDV assy (4 x 4LPM)
13a. 10081525  Knob assy, QDV
14. 6900114  Metering tip kit
15a. 505808  Discharge tube (4 LPM)
15b. 505804  Discharge tube (14 LPM)
16. 500870  Tubing 6mm x 2.1m
17. 10090463  Inline check valve
18. 509900  Weight
19. 609600  Strainer
### Metering Tip Selection:
The final concentration of the dispensed solution is related to both, the size of the metering tip opening, and the viscosity of the liquid being siphoned. For water-thin products, the chart can be used as a guideline. Because distillation can vary with water temperature and pressure, and if the product is noticeably thicker than water, dilution rates shown should be viewed as approximates.

#### APPROPRIATE DILUTIONS AT 40 PSI FOR WATER-THIN PRODUCTS (1.0 CP)

<table>
<thead>
<tr>
<th>Tip Color</th>
<th>Orifice Size</th>
<th>Std. Drill Number</th>
<th>Ratio (per Educator Flow)</th>
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<th>Orifice Size</th>
<th>Std. Drill Number</th>
<th>Ratio (per Educator Flow)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>4.0 Litres per minute</td>
<td></td>
<td></td>
<td></td>
<td>14.0 Litres per minute</td>
</tr>
<tr>
<td>No Tip</td>
<td>.187</td>
<td>(3/16)</td>
<td>3:1</td>
<td>.35:1</td>
<td>Green</td>
<td>.028</td>
<td>(70)</td>
</tr>
<tr>
<td>Grey</td>
<td>.128</td>
<td>(30)</td>
<td>3:1</td>
<td>4:1</td>
<td>Orange</td>
<td>.025</td>
<td>(72)</td>
</tr>
<tr>
<td>Black</td>
<td>.096</td>
<td>(40)</td>
<td>3:1</td>
<td>4:1</td>
<td>Brown</td>
<td>.022</td>
<td>(74)</td>
</tr>
<tr>
<td>Beige</td>
<td>.070</td>
<td>(50)</td>
<td>4:1</td>
<td>8:1</td>
<td>Yellow</td>
<td>.020</td>
<td>(76)</td>
</tr>
<tr>
<td>Red</td>
<td>.052</td>
<td>(55)</td>
<td>5:1</td>
<td>14:1</td>
<td>Aqua</td>
<td>.018</td>
<td>(77)</td>
</tr>
<tr>
<td>White</td>
<td>.043</td>
<td>(57)</td>
<td>7:1</td>
<td>20:1</td>
<td>Purple</td>
<td>.014</td>
<td>(79)</td>
</tr>
<tr>
<td>Blue</td>
<td>.040</td>
<td>(60)</td>
<td>8:1</td>
<td>24:1</td>
<td>Pink</td>
<td>.010</td>
<td>(67)</td>
</tr>
<tr>
<td>Tan</td>
<td>.035</td>
<td>(65)</td>
<td>10:1</td>
<td>30:1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Troubleshooting Chart:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| 1. Unit doesn't dispense | a. No water  
b. Magnetic valve not functioning  
c. Excessive water pressure  
d. Educator clogged  
e. Low flow mechanism failure  
f. Clogged water inlet strainer | a. Open water supply  
b. Install valve part kits  
c. Install regulator if flowing water pressure exceeds 4.3 Bar  
d. Clean (descale) or replace  
e. Install new parts  
f. Disconnect inlet water line and clean strainer |
| 2. No concentrate draw | a. Clogged foot strainer  
b. Metering tip or educator has scale build-up  
c. Low water pressure  
d. Discharge tube not in place (high flow only)  
e. Concentrate container empty  
f. Clogged water inlet strainer  
g. Selector out of position  
h. Check valve installed backwards  
i. Air leak in chemical pick-up tube  
j. Clear plastic tip installed in inlet hose barb | a. Clean or replace  
b. Clean (descale) or replace  
c. Minimum 1.78 Bar (with water running) required to operate unit properly  
d. Push tube firmly onto educator discharge hose barb  
e. Replace with full container  
f. Disconnect inlet water line and clean strainer  
g. Assure selector is in position desired  
h. Confirm arrow on side of check valve is pointed toward educator  
i. Put clamp on tube or replace tube if brittle  
j. Replace with colored metering tip |
| 3. Excess concentrate draw | a. Metering tip not in place | a. Press correct tip firmly into barb on product inlet |
| 4. Failure of unit to turn off | a. Water valve parts dirty or defective  
b. Magnet doesn't fully return  
c. Excessive water pressure  
d. Mechanism hangs up | a. Clean or replace with valve parts kit  
b. Make sure magnet moves freely. Replace spring if short or weak  
c. Install regulator if pressure (with water flowing) exceeds 4.3 Bar  
d. Be sure bracket is free to move and not broken |
| 5. Excess foaming in discharge | a. Air leak in chemical pick-up tube  
b. Unused concentrate inlet barb not plugged | a. Put clamp on tube or replace tube if brittle  
b. Insert clear metering tip in unused concentrate inlet barb |
| 6. Solution comes out of the wrong tube | a. Incorrect tubes connected to inlet ports | a. Review instructions on matching products with proper inlet stubs |