RESIDENTIAL SPA
Natural Spa Water Treatment

PZ5 - Portable, 24-Hour Ozonation for Spas and Custom Applications

INSTALLATION GUIDE and OPERATION MANUAL

PROZONE
Ozone Water Purification Systems

T•O3 NATURAL TECHNOLOGY
Reduces Chemical Usage,
Improves Sanitation
Produces Crystal Clear Water

Prozone Water Products: 2610 6th Street SW • Huntsville, AL 35805 • 256-539-4570 • www.prozoneint.com
The PZ5 Ozone Generator may be mounted in any orientation. Place the unit above water level or loop the ozone delivery hose above water level. This will prevent water from siphoning down into the ozonator.
1. Cut a 6" length of the 1/4" hose.
2. Attach one end of the 6" length of hose to the 1/4 barb on the Prozone Ozone Generator and secure with a clamp.
3. Make sure you can blow air through the Check Valve towards the spa/container, this is the INLET side of the Check Valve. Attach the other end of the 6" length of hose to the INLET side of the Check Valve and secure with a clamp.
4. Attach one end of the remaining length of 1/4" hose to the other barb (OUTLET) on the Check Valve and secure with a clamp.
5. Route the hose so that at some point it passes above the water level. You may need to tie the hose up to keep it in place.
6. Drain the water from the spa/container.
7a. If using a MP-3 Diffuser:
   1. Drill a 3/4" hole in the side of the spa/container near the bottom. Hole should be cut from the inside.
   2. Install the MP-3 Diffuser in the 3/4" hole and secure with furnished nut.
7b. If using a MP-1 Diffuser:
   1. Drill a 1-1/8" hole in the side of the spa/container near the bottom. Hole should be cut from the inside.
   2. Install the bulkhead fitting in the 1-1/8" hole and secure with the furnished nut, then install the MP-1 Diffuser into the bulkhead fitting.
8. Attach remaining end of the 1/4" hose to the MP-1 or MP-3 fitting and secure with a clamp.
9. Electrical: If hardwiring, system is either 120VAC, 60Hz; 240VAC, 50/60Hz or 12VAC/DC. Wire Prozone Ozone Generator system to circulation pump switch or timer. Prozone system and circulation pump should be started simultaneously. Use N.E.C. or local code grounding and installation procedures for spa equipment.

**INSTALLATION USING MP-2 DIFFUSER**

1. Cut a 6" length of the 1/4" hose.
2. Attach one end of the 6" length of hose to the 1/4 barb on the Prozone Ozone Generator and secure with a clamp.
3. Make sure you can blow air through the Check Valve towards the spa/container, this is the INLET side of the Check Valve. Attach the other end of the 6" length of hose to the INLET side of the Check Valve and secure with a clamp.
4. Attach one end of the remaining length of 1/4" hose to the other barb (OUTLET) on the Check Valve and secure with a clamp.
5. Route the hose so that at some point it passes above the water level. You may need to tie the hose up to keep it in place.
6. Attach remaining end of 1/4" hose to barb on the diffuser, secure both ends with clamps, and the diffuser may simply be hung over the side of the spa/container.
7. Electrical: If hardwiring, system is either 120VAC, 60Hz; 240VAC, 50/60Hz or 12VAC/DC. Wire Prozone Ozone Generator system to circulation pump switch or timer. Prozone system and circulation pump should be started simultaneously. Use N.E.C. or local code grounding and installation procedures for spa equipment.
OPERATION

The Prozone system produces ozone when air is drawn across a special high-energy vacuum ultraviolet (VUV) lamp, converting some air to ozone. Ozone is introduced into the water through a porous metal disk (diffuser) which creates extremely fine bubbles. As the bubbles rise, the ozone is absorbed into the water where it reacts. In the case of spa applications, the ozone is introduced via the “ozone ready” air venturi inherent in virtually all spas manufactured today. For spa and other water containers not ozone-ready, or for temporary or simple installations, a diffuser may be inserted into the ozone generator output hose, and the diffuser merely hung over the side.

WATER CHEMISTRY

- **pH - 7.2 to 7.6.** Ozone is pH neutral and will not cause the pH value of the water to fluctuate.
- **Sanitizers -** A chlorine level of 0.5 ppm to 1 ppm is recommended.
- **Shock -** Non-lithium-based material such as Calcium Hypochlorite or Sodium Hypochlorite, etc.
- **The use of other chemicals is not usually required and they could cloud the spa water.**

INSTALLATION KITS

<table>
<thead>
<tr>
<th>A05 Kit for MP-1 Diffuser</th>
<th>A06 Kit for MP-2 Diffuser</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>Plastic clamp ½&quot;</td>
<td>20185</td>
</tr>
<tr>
<td>Check Valve ¼&quot;</td>
<td>20214</td>
</tr>
<tr>
<td>MP-1 Diffuser</td>
<td>600058</td>
</tr>
<tr>
<td>Clear Hose ¼&quot;</td>
<td>20263</td>
</tr>
<tr>
<td>Diffuser, Air Body W/FTG</td>
<td>600062</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>A07 Kit for MP-3 Diffuser</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Plastic clamp ½&quot;</td>
</tr>
<tr>
<td>Check Valve ¼&quot;</td>
</tr>
<tr>
<td>MP-3 Diffuser</td>
</tr>
<tr>
<td>Clear Hose ¼&quot;</td>
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TROUBLESHOOTING GUIDE

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No light from Prozone unit</td>
<td>Power not connected</td>
<td>Check electrical connections</td>
</tr>
<tr>
<td>No bubbles from Diffuser</td>
<td>No power to unit</td>
<td>Voltage incompatibility</td>
</tr>
<tr>
<td></td>
<td>Defective lamp or other component</td>
<td>Check power source</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Return to dealer</td>
</tr>
<tr>
<td>Cloudy water</td>
<td>Ozone generator operation time too short</td>
<td>Increase operation time</td>
</tr>
<tr>
<td></td>
<td>Water chemistry out of balance</td>
<td>Check reading and balance accordingly</td>
</tr>
<tr>
<td></td>
<td>Total Dissolved Solids (TDS) level too high</td>
<td>Refer to dealer for proper water testing</td>
</tr>
<tr>
<td></td>
<td>Filter not working</td>
<td>Clean or replace filter</td>
</tr>
</tbody>
</table>