KEY FEATURES

• UP TO 4.0 LITERS PER MINUTE OF 18 MEGOHM WATER
• AUTOMATICALLY FILL ANY SIZE CONTAINER
• COUNTER SPACE SAVING WALL MOUNTED DESIGN

GEMINI-MB SYSTEM

The GEMINI-MB Ultra High Purity Water System provides up to 3.7 liters per minute of 18.2 megohm, 0.2 micron filtered water. The Multi-Pass Ultraviolet system irradiates the water at three separate passes in the recirculation loop. The dispensing port is continuously exposed to UV for complete sterility at the outlet. Water quality meets or exceeds ASTM, CAP and NCCLS Type 1 specifications.

Controls include PLC and a 3.5” high resolution HMI display. Touch panel screen provides easy interface for dispensing and programming up to four batches. Resistivity is clearly displayed with system operation status. Display turns red during alarm condition below resistivity set point. Hibernation mode runs the pump intermittently to keep the system ultrapure.

The convenient wall mount design accommodates filling large containers. A variety of options are available such as a dispensing gun, ultra-filtration, wall mounting hardware and a sanitization kit. RO pretreatment systems are also available.

FEATURES & BENEFITS

• MICROPROCESSOR CONTROLLED
  Intuitive touch screen allows for programmable dispensing of 18.2 megohm water into various containers at the touch of a button.

• MULTI-PASS UV STERILIZATION
  Continuous recirculation ensures water quality is maintained before it passing through the UV sterilized dispensing port.

• ULTRAPURE WATER
  Exceeds ASTM, CAP and NCCLS Type I specifications and meets bio-medical grade specification ASTM D5196.

• ISO 9001 : 2008 CERTIFIED

FLOW DIAGRAM

Direction of Flow  →  Resistivity Controller
Recirculation Pump  →  Dispensing Solenoid Valve
First Pass UV Sterilization  →  Check Valve
Second Pass UV Sterilization  →  High-Purity / Low TOC
Final Pass UV Sterilization  →  High-Purity / Low TOC
254 nm UV Bulb  →  Sub-Micron Filtration
Programmable Logic Controller
## Technical Data

**Dimensions (H x W x D)**  
21.5 in. x 18.25 in. x 18.25 in.  
(61 cm x 46 cm x 47 cm)

**Weight**  
42 lbs. dry / 47 lbs operating  
(22.7 kg dry / 25 kg operating)

**Inlet Connection**  
3/8" O.D. Tubing  
.375 mm O.D. Tubing

**Power Requirements**  
120 VAC / 60 Hz @ 1.0 amp

**Pressure**  
90 PSIG Maximum  
20 PSIG Minimum

**Temperature (Max.)**  
100˚F  
30˚C

**Flow Rate**  
1.0 Gallons Per Minute  
3.7 Liters Per Minute

**Outer Shell**  
Polypropylene  
316 Stainless Steel

## Influent Quality

<table>
<thead>
<tr>
<th>Source</th>
<th>Reverse Osmosis, DI, or Distillation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>&lt; 20 µS/cm</td>
</tr>
<tr>
<td>Filtration</td>
<td>0.2 µm</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>&lt; 0.05 ppm</td>
</tr>
<tr>
<td>Silica</td>
<td>&lt; 2 ppm</td>
</tr>
<tr>
<td>TOC</td>
<td>&lt; 50 ppb</td>
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</tbody>
</table>

## Effluent Quality (Standard System)

<table>
<thead>
<tr>
<th>Standard System</th>
<th>&gt; 18 Megohm- cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microorganisms</td>
<td>&lt; 10 CFU / 1000 ml</td>
</tr>
<tr>
<td>Chlorides</td>
<td>&lt; 1 ppb</td>
</tr>
<tr>
<td>Sodium</td>
<td>&lt; 1 ppb</td>
</tr>
<tr>
<td>With 0.05 micron UF-Endotoxin</td>
<td>&lt; 0.03 EU</td>
</tr>
<tr>
<td>With Combination UV / TOC Destruct-TOC</td>
<td>&lt; 3 ppb</td>
</tr>
</tbody>
</table>

## Ordering Guide

| GMB-102 | 110 VAC Unit w/ 0.2µ Filter |
| GMB-105 | 110 VAC Unit w/ 0.05 µm Ultra Filter |

## Options & Accessories

| GMA-DG | Dispensing gun and tubing kit |
| GMA-UV | U.V. Combination for bacteria and TOC destruct |
| GMA-DF | Direct feed |
| GMA-WB | Wall mounting bracket |
| AFK-002 | Cartridge Kit w/ (2) high purity cartridges |
| AFK-006 | Cartridge Kit with (2) low TOC Deionization Cartridges and 10-inch 0.2 micron filter |
| AFK-008 | Cartridge Kit with (3) high purity Low TOC Cartridges and (1) 0.05 µ ultrafilter |
| AFK-009 | Cartridge Kit with (3) high purity Low TOC Cartridges |
| PF-00-6505 | In-Line Hollow Fiber 0.05 micron UF for pyrogen removal |
| HPA-005 | Sanitization Kit |
| HPA-008 | 220 VAC external power converter |
| HPL-RO | Reverse Osmosis pretreatment |

Note: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

For more information Call: (856) 626-1550.

### Important Notice to User:

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Proud to be ISO 9001 : 2008 Certified

Made in USA

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