### Product Guidelines for Site Installation

**Product Name:** Thermo Scientific™ Barnstead™ Mega-Pure® Water Distillation Systems  
**Item Description:** Tap to Type 2 Lab Water System  
**Model #** MP-1, 1-ALPH  
**Order #** A440266, A7981

#### A. RECOMMENDED FEED WATER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistivity</td>
<td>$&gt; 0.001 \mu S/cm$</td>
</tr>
<tr>
<td>Blocking Index</td>
<td>SDI max. $&lt; 3$</td>
</tr>
<tr>
<td>Manganese</td>
<td>$mg/l \ x 0.05 \ mg/l$</td>
</tr>
<tr>
<td>Iron</td>
<td>$mg/l \ x 0.05 \ mg/l$</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>$mg/l \ x 0.1 \ mg/l$</td>
</tr>
<tr>
<td>pH Range</td>
<td>pH $4-11$</td>
</tr>
<tr>
<td>Pressure</td>
<td>PSI $20-100$</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>GPH $4$</td>
</tr>
</tbody>
</table>

#### B. ELECTRICAL POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
<th>A440266</th>
<th>A7981</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>Hertz</td>
<td>50/60</td>
<td>50/60</td>
</tr>
<tr>
<td>Amps</td>
<td>9</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Total number of receptacles / plugs required to operate water system: 1

Length of line cord | 5 Feet
Length of line cord | 0 Inches

#### C. PLUMBING REQUIREMENTS

- **Water Inlet Line**
  - Type of Fitting: Male NPT
  - Size of Fitting: 1/8 Inch
- **Manual Cutoff Valve**
  - Strongly Recommend
- **Waste Drain**
  - Type of Drain: Atmospheric
  - Max. Distance from Unit: 5 Feet

#### D. SPATIAL REQUIREMENTS

- **Equipment exterior dimensions (inches):**
  - Width: 23
  - Depth: 12
  - Height: 45
- **Automatic Collection System (ACS) Dimensions (inches):**
  - Width: 16.25
  - Depth: 16.25
  - Height: 38
- **Dual Cartridge Deionizer (D2) Dimensions (inches):**
  - Width: 16.75
  - Depth: 7.5
  - Height: 25.5

Equipment Weight (lbs): 60
ACS Reservoir Weight (full) (lbs): 60
Dual Cartridge Deionizer Weight (lbs): 30

- **Wall mount specifications:** If the system is to be mounted on the wall or on a shelf the designated area must be capable of supporting up to 200 lbs.

#### E. Accessories / Replacement Consumables

**Required Accessories**
- Reservoir
  - Select One from the three options below:
    - 413964 6L Plastic Reservoir
    - 410535 9L Glass Reservoir
    - 413934 13L Glass Reservoir
    - 410164 45L Glass Reservoir
    - D440704 Automatic Collection System (includes 45L glass reservoir)
- 4402362 Dual Solenoid required if using pretreated boiler feed water and untreated cooling water

**Optional Accessories**
- D440066 Dual Cartridge Deionizer (REQUIRES Still Adapter Kit (#440376))
- D400377 High Capacity Cartridge
- D400499 High Purity Cartridge
- D440265 Organic Removal Cartridge

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8/25/2014