## Product Guidelines for Site Installation

**Thermo Scientific™**

**Barnstead™ GenPure xCAD**

**Plus™ Water Purification Systems**

**Type 1 Lab Water System with Bench Mounted Remote Dispenser**

### A. RECOMMENDED FEED WATER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colloid Index</td>
<td>&lt; 1 SDI</td>
</tr>
<tr>
<td>SDI</td>
<td>&gt; 0.5 µS/cm</td>
</tr>
<tr>
<td>Resistivity µS/cm</td>
<td>&gt; 0.5 µS/cm</td>
</tr>
<tr>
<td>TOC Value ppb</td>
<td>&lt; 50 ppb</td>
</tr>
<tr>
<td>Free Chlorine ppm</td>
<td>&lt; 0.05 ppm</td>
</tr>
<tr>
<td>Turbidity NTU</td>
<td>&lt; 1.0 NTU</td>
</tr>
<tr>
<td>Carbon Dioxide ppm</td>
<td>&lt; 30 ppm</td>
</tr>
<tr>
<td>Silicate ppm</td>
<td>&lt; 2 ppm</td>
</tr>
<tr>
<td>Pressure PSI</td>
<td>1.45 - 87 PSI</td>
</tr>
<tr>
<td>Feed Water Temp. °C</td>
<td>2 - 40 °C</td>
</tr>
<tr>
<td>Recommended Type</td>
<td>ASTM 1, 2, or 3</td>
</tr>
</tbody>
</table>

### B. ELECTRICAL POWER REQUIREMENTS

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Volts</th>
<th>Hertz</th>
<th>Amps</th>
<th>Single</th>
<th># of Phases</th>
</tr>
</thead>
<tbody>
<tr>
<td>115/240V</td>
<td>50/60</td>
<td>2 - 1 A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Length of line cord: 8 Feet, 0 Inches

### C. PLUMBING REQUIREMENTS

**Water Inlet Line**

- **Type of Fitting**: Male NPT
- **Size of Fitting**: 3/4 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: 13.3
- Depth: 24.2
- Height: 24.2

**Remote Dispenser dimensions (inches):**

- Width: 21
- Depth: 28.5
- Height: 28.5

**Equipment Weight (lbs):** 55

**Remote Dispenser Weight (lbs):** 26.5

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. Remote Dispenser can be mounted no more than 9 feet away from the water system. Additional remote dispensers maybe mounted up to 9 feet away from each other.

### E. Accessories / Replacement Consumables

**Accessories**

- AY1137X1 Log Printer for connection to RS232 port (110V)

**Replacement Consumables**

- 09.2005 Ultra pure water cartridge
- 09.1003 0.2µm Final Filter
- 09.2201 Disinfection Cartridge
- CMX25 Disinfection Solution, 1 Time Use
- 50133980 Ultrafilter
- 50136494 Disinfection Solution, 1 Time Use
- 50136152, 50136151, 50136153, 50136146 Additional bench mounted "client" xCAD remote dispenser
- 50136059 Additional wall mounted "client" xCAD remote dispenser

* Up to 2 additional "client" xCAD remote dispensers can be connected per water system in any mounting configuration (wall or bench).