**Product Guidelines for Site Installation**

**Product Name:** Thermo Scientific Barnstead™ Smart2Pure™ 12LPH Water Purification Systems

**Model #** 50129890, 50129845

**Manufacturer** Thermo Scientific

**Order #** 50129890, 50129845

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NOTE: Barnstead Smart2Pure water purification systems come complete with pressure regulator, tubing, and all necessary consumables. Required 1 micron pretreatment filter, 09.4003, and reservoir is not included with the system therefore must be ordered separately.

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### A. RECOMMENDED FEED WATER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blocking Index (SDI)</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>Manganese (mg/l)</td>
<td>&gt; 0.05</td>
</tr>
<tr>
<td>Iron (mg/l)</td>
<td>&gt; 0.05</td>
</tr>
<tr>
<td>Free Chlorine (mg/l)</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>pH Range (pH)</td>
<td>4-11</td>
</tr>
<tr>
<td>Pressure (PSI)</td>
<td>1.45 - 87</td>
</tr>
<tr>
<td>Feed Water Temp. (°C)</td>
<td>2-35</td>
</tr>
</tbody>
</table>

Recommended Type: ASTM 1, 2, or 3

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### B. ELECTRICAL POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>115/240V</td>
</tr>
<tr>
<td>Hertz</td>
<td>50/60</td>
</tr>
<tr>
<td>Amps</td>
<td>2 - 1 A</td>
</tr>
<tr>
<td>Single Phase</td>
<td>1</td>
</tr>
</tbody>
</table>

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### 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

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### D. SPATIAL REQUIREMENTS

**Equipment Exterior Dimensions (inches):**

- Width: 12
- Depth: 21.5
- Height: 15.7

**30L Reservoir Dimensions (inches):**

- Width: 15
- Depth: 23.5
- Height: 15

**60L Reservoir Dimensions (inches):**

- Width: 15
- Depth: 35.5
- Height: 15

**Pretreatment Dimensions (inches):**

- Width: 5.1
- Depth: 12.2
- Height: 5.1

**Equipment Weight (lbs):**

- 40 Lbs.

**30L Reservoir Weight (full) (lbs):**

- 70 Lbs.

**60L Reservoir Weight (full) (lbs):**

- 140 Lbs.

**Pretreatment Weight (lbs):**

- 15 Lbs.

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**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.

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

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### E. Accessories / Replacement Consumables

**Required Accessories**

- 09.4003 1 micron prefilter
- 06.5040 30L Storage Reservoir (must select 30L or 60L but not both)
- 06.5070 60L Storage Reservoir (must select 30L or 60L but not both)

**Optional Accessories**

- 09.2212 Wall mounting bracket for system
- 09.4001 5 micron filter and hardness stabilizer for customers with SDI >3
- 50138221 Hand dispenser
- 06.5015 30L Reservoir wall mounting bracket
- 06.5016 60L Reservoir wall mounting bracket

**Replacement Consumables**

- 09.1020 Ultra pure water cartridge
- 09.1003 0.2µm Final Filter
- 09.1020 RO Membrane with integrated pretreatment for 12LPH system
- CMX25 Disinfection Solution, 1 Time Use
- 50133981 Ultrafilter
- 09.1002 Replacement UV lamp
- 06.5001 Sterile Overflow Filter
- 06.5002 0.2 micron filter with CO2 Adsorber

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