# Product Guidelines for Site Installation

## Product Name:

**Thermo Scientific™ Barnstead™ Smart2Pure™** 3LPH and 6LPH Water Purification Systems

### Water Purification Systems

<table>
<thead>
<tr>
<th>Order #</th>
<th>Manufacturer</th>
<th>Model #</th>
</tr>
</thead>
<tbody>
<tr>
<td>50129872, 50129885, 50129887</td>
<td>Thermo Scientific</td>
<td>50129872, 50129885, 50129887</td>
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</tbody>
</table>

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

### A. RECOMMENDED FEED WATER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>Blocking Index SDI max.</td>
<td>&lt; 3 SDI</td>
</tr>
<tr>
<td>Manganese mg/l</td>
<td>&gt; 0.05 mg/l</td>
</tr>
<tr>
<td>Iron mg/l</td>
<td>&gt; 0.05 mg/l</td>
</tr>
<tr>
<td>Free Chlorine mg/l</td>
<td>&lt; 0.1 mg/l</td>
</tr>
<tr>
<td>pH Range</td>
<td>4-11 pH</td>
</tr>
<tr>
<td>Pressure PSI</td>
<td>1.45 - 87 PSI</td>
</tr>
<tr>
<td>Feed Water Temp. °C</td>
<td>2-35 °C</td>
</tr>
<tr>
<td>Recommended Type</td>
<td>ASTM 1, 2, or 3</td>
</tr>
</tbody>
</table>

### B. ELECTRICAL POWER REQUIREMENTS

- **Electrical Specifications**
  - 115/240V Volts
  - 50/60 Hertz
  - 2 - 1 A Amps
  - Single # of Phases

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

- **Length of line cord:** 8 Feet 0 Inches

### C. PLUMBING REQUIREMENTS

- **Type of Fitting:** Male NPT
- **Size of Fitting:** 3/4 Inch
- **Manual Cutoff Valve:** Strongly Recommend
- **Type of Drain:** Atmospheric
- **Max. Distance from Unit:** 5 Feet

### D. SPATIAL REQUIREMENTS

- **Equipment exterior dimensions (inches):** Width 15.7 Depth 21.5 Height
- **Pretreatment dimensions (inches):** Width 5.1 Depth 12.2 Height
- **Equipment Weight (lbs):** 40
- **Pretreatment Weight (lbs):** 15

**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
- 09.4003 1 micron prefilter

#### Optional Accessories
- 09.2212 Wall mounting bracket for system
- 09.4001 5 micron filter and hardness stabilizer for customers with SDI >3

#### Replacement Consumables
- 09.1020 Ultra pure water cartridge
- 09.1003 0.2µm Final Filter
- 09.2003 RO Membrane with integrated pretreatment for 3LPH system
- CMX25 Disinfection Solution, 1 Time Use
- 09.2006 RO Membrane with integrated pretreatment for 6LPH system
- 50133981 Ultrafilter
- 09.1002 Replacement UV lamp

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