### Tanked Water Heater Worksheet

**A:**
- **Utensil Sink Large (>18" X 18")**: 25
- **Utensil Sink Small (18" X 18" or smaller)**: 14
- **Hand Wash Sink (including restrooms)**: 5
- **Bar Sink**: 6
- **Food Preparation Sink**: 5
- **Mop Sink**: 15
- **Pre-rinse Sprayer (if not combo)**: 45
- **Garbage Wash Facility**: 15
- **Clothes Washer**: 45 or M.S. Sheet Value

**B:**
- **Dish Machine (Manufacturer's Specification Sheet (M.S. Sheet))**

**C:**
- **Add A and B**

**D:**
- **Food Facility with multi-use utensils?**
  - **Total GPH**: 1
  - **Adjustment**: 1
  - **Adjusted GPH**: 100% Recovery
- **Food Facility with only single use Utensils?**
  - **Total GPH**: 0.8
  - **Adjustment**: 0.8
  - **Adjusted GPH**: 80% Recovery
- **Pre-packaged food only?**
  - **Total GPH**: 0.8
  - **Adjustment**: 0.8
  - **Adjusted GPH**: 10 Gallon Minimum

**E:**
- **To get minimum Power Rating:**
  - **GAS**: Adjusted GPH X 8.33 X 50 /Thermal Efficiency(0.75 = Default)
  - **Electric**: Adjusted GPH X 0.125

**Power Rating:**
- **BTU/hr. required**
- **kW required**
- **BTU/hr. proposed**
- **kW Proposed**

### Tankless Water Heater Worksheet @ 50 Degree F. Rise in Temperature

<table>
<thead>
<tr>
<th>Component</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Hand Wash Sinks (Includes Restrooms)</td>
<td>X 0.5 GPM</td>
</tr>
<tr>
<td>Number of All Other Sinks (Not Compartments)</td>
<td>X 2.0 GPM</td>
</tr>
<tr>
<td>Dish Machine/Clothes Washer (Manufacturer's Specification Sheet)</td>
<td>Total GPM</td>
</tr>
</tbody>
</table>

**Note:** High Temperature Dish Machines may require booster.

**Total GPM**

**At 50 Degree F. Rise**
**INSTRUCTIONS**

**Tanked Water Heaters**

1. Fill in number of Compartments or Units for each Fixture. (Section A)
2. Multiply by Default Factor listed. Note: Manufacturer’s Specification Sheet Data may be used instead of Default Factor. Record in Gallons Per Hour Column.
3. Subtotal Gallons Per Hour. (GPH)
4. Add Dish Machine Info. From Manufacturer’s Specification Sheet. (Section B)
5. Total Gallons Per Hour (Section C)
6. Enter Total Gallons Per Hour from (Section C) into either D:1, D:2 or D:3.
7. Multiply D:1, D:2 or D:3 by GPH Adjustment. Record as Adjusted GPH.
8. Gas E:1 - Multiply Adjusted GPH X 8.33 lbs. gallon X 50 F. Rise in Temp./Thermal Efficiency. Note: Thermal Efficiency Default is 0.75 unless justified by Manufacturer’s Specification Sheet.
   Electric E:2 – Multiply GPH X 0.125.
9. Enter Result as Required Power Rating.
10. Enter Proposed Power Rating at least equal to the Required Power Rating.
11. Include Model Information and provide Manufacturer’s Specification Sheet.

**Tankless Water Heaters**

1. Enter Number of Hand Wash Sinks (Including Restrooms).
2. Enter Number of Sinks (NOT COMPARTMENTS).
3. Multiply by Gallons Per Minute (GPM) Factors.
4. Add Gallon Per Minute hot water usage per Manufacturer’s Specification Sheets for Dish Machine and Clothes Washer.
5. Total equals the minimum Gallons per Minute at a 50 Degree F. Rise in Temperature.

| Proposed Commercial Unit Brand: |                      |
| Model Number:                   |                      |
| Type Gas or Electric:           |                      |
| Tanked Water Heater Power Rating: |                    |
| Tankless GPM @ 50 Degree F. Rise in Temp.: |  |