

**ALAMEDA COUNTY**  
**TANKED WATER HEATER WORKSHEET**

	Number of Compartments	Multiply by :	Gallons Per Hour	
A:	Utensil Sink <b>Large</b> (>18" X 18")	25		
	Utensil Sink <b>Small</b> (18" X 18" or smaller)	14		
	Hand Wash Sink(including restrooms)	5		
	Bar Sink	6		
	Food Preparation Sink	5		
	Mop Sink (# of Units)	15		
	Pre-Rinse Sprayer (# of Units if not combo.)	45		
	Garbage Wash Facility (# of Units)	15		
	Clothes Washer (# of Units)	45		or cut sheet value
				<b>Subtotal</b>
B:	Dish Machine(Manufacturer's Specification Sheet)			
C:	Add A and B	<b>Total</b>		<b>Gallons Per Hour</b>

	Total GPH:	X GPH	Adjusted GPH:	
		Adjustment:		
D:1	Food Facility with <b>multi-use</b> utensils?	1		100% Recovery
D:2	Food Facility with only single use utensils?	0.8		80% Recovery
D:3	Prepackaged food only?	0.8		10 Gallon Minimum

E:	To get minimum Power Rating:		Power rating:	
E:1	GAS: Adjusted GPH X 8.33 X 50 / Thermal Efficiency(0.75 = Default)	Total:		<b>BTU/hr. required</b>
E:2	ELECTRIC: Adjusted GPH X 0.125 =	Total:		<b>kW required</b>
F:1	Power rating proposed			BTU/hr. required
F:2	Must be Commercial and Total power rating at least a high as kW required.			kW required

**TANKLESS WATER HEATER WORKSHEET @ 50 degree F rise in temperature**

	Gallons Per Minute		
Number of Hand Wash Sinks(includes restrooms)		X 0.5 GPM	
Number of All Other Sinks( <b>Not Compartments</b> )		X 2.0 GPM	
Dish Washer/Clothes Washer (Manufacturer's Specification Sheet)			
Note: High Temperature Dish Machines may require booster.			<b>Gallons Per Minute</b> at 50 Degree F. Rise

## INSTRUCTIONS

### Tanked Water Heater Worksheet

- 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
- 3 Subtotal Gallons Per Hour
- 4 Add Dish Machine Info From Cut Sheet (Section B)
- 5 Total Gallons Per Hour (Section C)
- 6 Enter Total GPH 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 Multiply Adjusted GPH X 8.33lbs/gal. X 50 F rise /Thermal Efficiency from Specification Sheet (Gas=0.75 Default). (E:1)  
Multiply Adjusted GPH X 0.125 (Electric) (E:2)

### Tankless Water Heater

- 1 Enter Number of Hand Wash Sinks (Including restrooms)
- 2 Enter Number of Sinks(NOT COMPARTMENTS)
- 3 Multiply by Gallons per **Minute** Factors
- 4 Add Gallon per Minute hot water usage per Cut Sheets for Dish Machine and Clothes Washer.
- 5 Total is minimum Gallons per minute at 50 Degree F. Rise in Temperature.

Proposed Commercial Unit Brand:	
Model Number:	
Type (Gas, Electric or tankless):	
Tank Power Rating:	
Tankless GPM @ 50 degree F. Rise in Temp.:	