

ALAMEDA COUNTY

TANKED WATER HEATER WORKSHEET

		Number of Compartments	Multiply by:	Gallons per Hour	
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
			Subtotal:		Gallons Per Hour
B:	Dish Machine(Manufacturer's Specification Sheet (M.S. Sheet))				
C:	Add A and B		Total:		Gallons Per Hour
			X GPH		
		Total GPH:	Adjustment:	Adjusted GPH:	
D:1	Food Facility with multi-use service utensils?		1		100% Recovery
D:2	Food Facility with only single use utensils?		0.8		80% Recovery
D:3	Pre-packaged 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:		BTU/hr. required
E:2	Electric: Adjusted GPH X 0.125		Total:		kW required
	Power rating proposed:		Gas:		BTU/hr. proposed
	Must be Commercial and Total power rating at least as high as required		Electric:		kW Proposed

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 (Not Compartments)		X 2.0 GPM		
Dish Machine/Clothes Washer (Manufacturer's Specification Sheet)				
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.

Note: Electrical Water Heaters must display a tag that verifies simultaneous wiring.

Tankless Water Heaters

1. Enter Number of Hand Wash Sinks (Including Restrooms).
2. Enter Number of Other 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:	
Capacity for Tanked Units (Gallons)	
Tanked Water Heater Power Rating:	
Tankless GPM @ 50 Degree F. Rise in Temp.:	