

HOURLY HOT WATER DEMAND TABLE

From Guidelines For Sizing Water Heaters,

Statewide Guidance from CCDEH

Utensil Sinks

18" x 18" 14 gallons per compartment

24" x 24" 25 gallons per compartment

Custom sink sizes can be calculated using the following formula:

Length (ft.) X Width (ft.) X Depth (ft.) X 7.5 = gallons per compartment

Bar Sinks

6 gallons per compartment

Hand Sinks

5 gallons per sink

Pre-rinse Units

Hand spray type 45 gallons

Clothes Washers

9 and 12 lb washers 45 gallons

16 lb washers 60 gallons

Food Preparation Sinks

5 gallons per sink

Employee Shower

20 gallons per shower

Janitorial Sinks and Garbage Can

Wash Facilities

15 gallons per sink or facility

Other Fixtures That Use Hot Water

Refer to manufacture's specifications for the equipment and NSF® listing.

Automatic Commercial Dishwashers

Refer to manufacture's specifications and ratings in the NSF® listing for Standard 3.

NSF®: <http://www.nsf.org/Certified/Food/>

INSTANTANEOUS WATER HEATERS:

Instantaneous water heaters must be sized to provide hot water of at least 120°F, and at a rate of at least 2 G.P.M. to each sink (hand sinks must receive at least ½ G.P.M.). NSF listings are used to determine the minimum G.P.M. hot water demand for automatic dishwashers.

For additional information on sizing and installation of water heaters see *Guidelines For Sizing Water Heaters* available on the CCDEH web site:

<http://ccdeh.com/commttee/food/documents/default.htm>

HOT WATER DEMANDS

ESTABLISHMENT _____

ADDRESS: _____

Fixtures	No. Units	x	GPH	=	Total GPH
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
_____	_____	x	_____	=	_____
			TOTAL GPH	=	_____

COMPUTING THE BTU INPUT (gas water heaters):

_____ TOTAL GPH x _____% (See sizing requirements below) = _____ **GPH required**

_____ GPH required x 60° rise x 11 = _____ **BTU input of water heater**

FORMULA FOR ELECTRIC WATER HEATERS:

_____ GPH required x .149 = _____ **KW input**

WATER HEATER
MANUFACTURER'S NAME: _____ **MODEL #** _____

BTU or KW Input of Water Heater _____

SIZING REQUIREMENTS FOR STORAGE WATER HEATERS (Not instantaneous water heaters)

- Food facilities with multi service eating utensils, heavy use (serving 3 meals a day): 100% GPH required
- Food facilities with multi service eating utensils, moderate use: 90% GPH required
- Food facilities with only single-service eating utensils or don't use utensils at all: 80% GPH required
- Food facilities that sell **only** prepackaged foods, a water heater with a minimum storage capacity of 10 gallons must be provided.