

HOT WATER DEMANDS FOR A FOOD FACILITY

Establishment _____

Address _____

Fill in Applicable Fixtures	# Units	x	GPH	=	Total GPH
3-Compartment Sink (" x "x ") _____	_____	x	_____	=	_____
Hand Sink _____	_____	x	_____	=	_____
Mop Sink _____	_____	x	_____	=	_____
Prep Sink _____	_____	x	_____	=	_____
Dishwasher _____	_____	x	_____	=	_____
Pre-Rinse Unit _____	_____	x	_____	=	_____
Other: _____	_____	x	_____	=	_____
Other: _____	_____	x	_____	=	_____
Other: _____	_____	x	_____	=	_____
Other: _____	_____	x	_____	=	_____
			TOTAL GPH	=	_____

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

COMPUTING THE BTU INPUT (gas water heaters)

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

FORMULA FOR ELECTRIC WATER HEATERS

GPH required _____ x 0.149 = _____ KW input

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 single-service eating utensils, or don't use utensils at all

80% GPH required

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Food facilities that sell **only** prepackaged foods -- A water heater with a minimum storage capacity of 10 gallons must be provided.

HOURLY HOT WATER DEMAND TABLE

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		Hand Sinks	
6 gallons per compartment		5 gallons per sink	
Pre-Rinse Units		Clothes Washers	
Hand spray type	45 gallons	9 and 12 lb Washers	45 gallons
Other type	Refer to manufacturer's specifications for the equipment.	16 lb Washers	60 gallons
Food Preparation Sinks		Employee Shower	
5 gallons per sink		20 gallons per shower	
Janitorial Sinks & Garbage Can Wash Facilities		Other Fixtures That Use Hot Water	
15 gallons per sink or facility		Refer to manufacturer's specifications for the equipment or NSF® listing.	

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 GPM to each sink (hand sinks must receive at least ½ GPM). NSF listings are used to determine the minimum GPM hot water demand for automatic dishwashers.