



SIZING GUIDE

Indirect-Fired Storage Water Heaters MODELS WH-30 TO WH-80

MODEL WH WATER HEATER SELECTION

The first hour water heater rating will vary, depending on the heating capacity of the boiler it is connected to. It will also vary with the water heater's thermostat setting -- it is able to make more gallons per hour of 127° hot water than it can make of 140° water.

Before using this chart, determine the gross output rating (BTUH) of the boiler which will be its heat source. To find the water heater model which meets the first hour rating calculated in Step 2, proceed as follows:

- A. Using the column for 140° Temp., look down and mark any water heater ratings that match the required first hour rating from Step 2.
- B. For each acceptable rating, check its corresponding Boiler Gross Output. Circle those entries where both the First Hour Rating and the Boiler Gross Output meet the usage requirements. Any of the water heater models with a circled rating entry may be selected for use.
- C. Recommendations for priority are given in the last column of this chart. Priority is generally recommended for installations where the boiler's gross output is below the BTUH needed to achieve the desired first hour rating of the heater. Priority is not recommended for installations where the boiler's gross output is above the BTUH needed to achieve the desired first hour rating, in order to minimize boiler short-cycling.

WATER HEATER SELECTION CHART. Boiler output vs. heater rating.†

Water Heater Model	Boiler Gross Output BTUH	140° Temp. (90° Delta T) 1st Hour Rating (Gallons)	127° Temp. (77° Delta T) 1st Hour Rating (Gallons)	115° (65° Delta T) 1st Hour Rating (Gallons)	DHW Priority
WH-30	40,000	60	70	83	Recommended
	60,000	90	105	125	
	84,000	115	134	160	
	102,000	140	164	193	Not Necessary
	120,000	140	164	193	
	140,000	140	164	193	Not Recommended
WH-40	40,000	68	79	94	Recommended
	60,000	100	117	138	
	80,000	130	152	180	
	100,000	152	177	210	Not Necessary
	127,000	175	205	242	
	140,000	175	205	242	
	160,000	175	205	242	
WH-60	100,000	160	187	221	Recommended
	120,000	176	205	244	
	140,000	181	211	251	
	160,000	186	217	258	Not Necessary
	180,000	192	224	266	
	200,000	207	242	287	
	220,000	220	257	305	
WH-80 *	140,000	105	122	146	Recommended
	160,000	163	189	226	
	180,000	220	256	306	Not Necessary
	200,000	260	303	361	
	220,000	300	350	415	
	240,000	300	350	415	Not Recommended

* In order to minimize the possibility of condensation formation in the boiler, due to low return water temperature, it is not recommended to utilize a boiler which has a gross output below that shown on the chart with this particular model of water heater.

† First hour ratings in the above chart for standard coil heaters only. For water heater models with double wall coils, (suffix "D") multiply the first hour rating in the above chart by .55.