

Eemax Sizing Guide

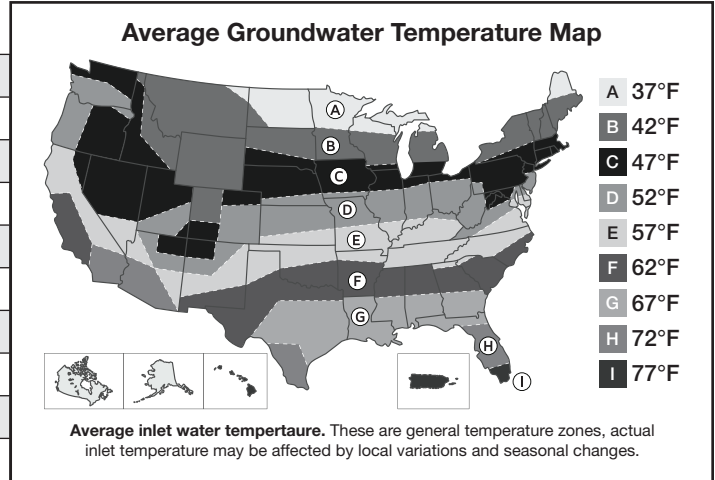
Ensure Proper Size of Tankless Electric Water Heaters

A tankless water heater creates hot water on demand. You need a proportional amount of energy (kW) to heat the flow (GPM) required for your applications. The chart below will help you determine the correct tankless electric water heater, based on flow rate (GPM) and temperature rise.

Flow Chart Power Required – kW

30	88 kW	132 kW									
25	74 kW	110 kW									
24	71 kW	106 kW									
23	68 kW	102 kW	135 kW								
22	65 kW	97 kW	129 kW								
21	62 kW	93 kW	123 kW								
20	59 kW	88 kW	118 kW								
19	56 kW	84 kW	112 kW	140 kW							
18	53 kW	80 kW	106 kW	132 kW							
17	50 kW	75 kW	100 kW	125 kW							
16	47 kW	71 kW	94 kW	118 kW	141 kW						
15	44 kW	66 kW	88 kW	110 kW	132 kW						
14	41 kW	62 kW	82 kW	103 kW	123 kW	144 kW					
13	39 kW	58 kW	77 kW	96 kW	115 kW	134 kW					
12	36 kW	53 kW	71 kW	88 kW	106 kW	123 kW	141 kW				
11	33 kW	49 kW	65 kW	81 kW	97 kW	113 kW	129 kW				
10	30 kW	44 kW	59 kW	74 kW	88 kW	103 kW	118 kW	132 kW			
9	27 kW	40 kW	53 kW	66 kW	80 kW	93 kW	106 kW	119 kW	132 kW		
8	24 kW	36 kW	47 kW	59 kW	71 kW	82 kW	94 kW	106 kW	118 kW	129 kW	
7	21 kW	31 kW	41 kW	52 kW	62 kW	72 kW	82 kW	93 kW	103 kW	113 kW	
6	18 kW	27 kW	36 kW	44 kW	53 kW	62 kW	71 kW	80 kW	88 kW	97 kW	
5	15 kW	22 kW	30 kW	37 kW	44 kW	52 kW	59 kW	66 kW	74 kW	81 kW	
4	12 kW	18 kW	24 kW	30 kW	36 kW	41 kW	47 kW	53 kW	59 kW	65 kW	
3	9 kW	14 kW	18 kW	22 kW	27 kW	31 kW	36 kW	40 kW	44 kW	49 kW	
2	6 kW	9 kW	12 kW	15 kW	18 kW	21 kW	24 kW	27 kW	30 kW	33 kW	
1	3 kW	5 kW	6 kW	8 kW	9 kW	11 kW	12 kW	14 kW	15 kW	17 kW	
0.5	2 kW	3 kW	3 kW	4 kW	5 kW	6 kW	6 kW	7 kW	8 kW	9 kW	
	20°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	

Total Gallons Per Minute (GPM) Demand



Rise In Temperature °F

NOTE: For simple calculation, kW reference is based on a 100% heater efficiency.

$$\text{kW Required} = \text{GPM} \times (\text{temp rise}/6.83)$$

$$\text{Temperature Rise} = \text{kW} \times (6.83/\text{GPM})$$

$$\text{GPM Demand} = \text{kW} \times (6.83/\text{temp rise})$$