



Recovery Rates in Gallons per Hour - Electric Water Heaters

Temperature Rise - Degrees Fahrenheit

	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
INPUT kW											
1	10	8	7	6	5	5	4	4	3	3	3
1.5	16	12	10	9	8	7	6	6	5	5	4
2	21	17	14	12	10	9	8	8	7	6	6
2.5	26	21	17	15	13	12	10	10	9	8	7
3	31	25	21	18	16	14	12	11	10	10	9
3.5	36	29	24	21	18	16	15	13	12	11	10
4	41	33	28	24	21	18	17	15	14	13	12
4.5	47	37	31	27	23	21	19	17	16	14	13
5	52	41	34	30	26	23	21	19	17	16	15
5.5	57	46	38	33	28	25	23	21	19	18	16
6	62	49	41	35	31	27	25	22	21	19	18
9	92	74	61	53	46	41	37	34	31	28	26
12	123	98	82	70	61	55	49	45	41	38	35
15	154	123	102	88	77	68	61	56	51	47	44
18	184	147	123	105	92	82	74	67	61	57	53
24	246	197	164	140	123	109	98	89	82	76	70
27	276	221	184	158	138	123	111	101	92	85	79
30	307	246	205	175	154	137	123	112	102	95	88
36	369	295	246	211	184	164	147	134	123	113	105
45	461	369	307	263	230	205	184	168	154	142	132
54	553	442	369	316	276	246	221	201	184	170	158

To figure the recovery capacity by hand and you know the kW input:

$$\frac{\text{kW}}{.00242 \times (\text{temperature rise } ^\circ \text{F})}$$

To figure recovery by hand and you know the wattage input:

$$\frac{\text{watts}}{2.42 \times (\text{temperature rise } ^\circ \text{F})}$$