

## Selection Guide for Electric Swimming Pool Heaters

Use this table to select the proper size Coates Electric Swimming Pool Heater for your pool. Note that the shaded columns are for indoor pools only. If the indoor pool enclosure is air conditioned or has dehumidification equipment a larger heater should be selected, the heater sized for outdoor use is recommended. Outdoor sizing is based on a 3½ MPH wind speed and partial sun exposure to the water surface. High wind areas or pools that are located in the shade may need a larger heater.

COATES ELECTRIC SWIMMING POOL & SPA HEATERS												
Temp.	10ΔT		15ΔT		20ΔT		25ΔT		30ΔT		35ΔT	
Rise	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor
MODEL	Pool Surface Area in Square Feet											
12CE	409	546	273	364	205	273	164	218	137	182	117	156
15CE	512	682	341	455	256	341	205	273	171	228	146	195
18CE	614	819	409	546	307	409	246	328	205	273	175	234
24CPH	819	1092	546	728	409	546	328	437	273	364	234	312
30CPH	1024	1365	682	910	512	682	409	546	341	455	292	390
36PHS	1228	1638	819	1092	614	819	491	655	409	546	351	468
45PHS	1535	2047	1024	1365	768	1024	614	819	512	682	439	585
54PHS	1843	2457	1228	1638	921	1228	737	983	614	819	526	702
57PHS	1945	2593	1297	1729	972	1297	778	1037	648	864	556	741

### HOW TO USE THIS TABLE:

TABLE2.DOC, REV, 5/19/99 REW

- ① Determine the size of the pools surface area in square feet.
- ② Obtain the average air temperature of the coldest month the pool will be in use ( this information is available from your local weather service).
- ③ Subtract the average air temperature from the desired water temperature, usually 78°-82° F, for required temperature rise.
- ④ Using the table, select the temperature rise colimn for your pool and read down to the surface area square feet determined in item ①. Use the correct column for outdoor or indoor pools. At the surface area closest to your pool read over to the left for the correct Coates Electric Heater for your swimming pool.

See next page for Spa and Hot Tub Sizing.

## Selection Guide for Electric Spa and Hot Tub Heaters

Use this table to select the proper size Coates Electric Heater for residential or commercial spas and hot tubs. This table is based on **TIME TO HEAT** the water and assumes that the spa or hot tub will be covered when not in use. If the spa or hot tub is located outside in cold weather or has an air blower an increase in heater size may be required. Commercial or extended use may also require a larger heater.

<b>COATES ELECTRIC HEATERS FOR SPAS &amp; HOT TUBS</b>												
	<b>RESIDENTIAL SPA HEATERS</b>			<b>COMMERCIAL OR LARGE CAPACITY SPA HEATERS</b>								
<b>MODEL KILOWATT</b>	<b>1.5ILS 1.5kW</b>	<b>6ILS 5.5kW</b>	<b>11SHB 11kW</b>	<b>12CE 12kW</b>	<b>15CE 15kW</b>	<b>18CE 18kW</b>	<b>24CPH 24kW</b>	<b>30CPH 30kW</b>	<b>36PHS 36kW</b>	<b>45PHS 45kW</b>	<b>54PHS 54kW</b>	<b>57PHS 57kW</b>
<b>SPA SIZE GALLONS</b>	<b>TIME IN MINUTES TO RAISE WATER TEMPERATURE 10°F</b>											
200	195	53	27	24	20	16	12	10	8	7	6	5
300	293	80	40	36	29	24	18	15	12	9	8	7
400	390	106	54	48	38	32	24	20	16	12	11	10
500	486	133	66	61	48	40	30	25	20	16	14	13
600	582	159	80	73	58	48	36	30	24	19	16	15
700	684	186	96	85	68	56	42	35	28	22	19	18
800	780	212	108	97	77	64	48	40	32	25	22	21
900	882	239	120	109	87	72	54	45	36	28	24	23
1000	975	265	132	121	97	80	60	50	40	32	27	26

### HOW TO USE THIS TABLE:

- ① Determine the size of your spa or hot tub in gallons.
  - ② Starting from the gallons column, move across this row to the desired heat up time in minutes.
  - ③ Follow that column up to the size heater required for the desired heat up time.
  - ④ For a temperature rise higher than 10°F, increase the gallons in proportion to the increase in temperature rate desired.
- Example;** If the **TIME TO HEAT** required is 30 minutes a 15kW heater will raise the water 10°F . To double the temperature rise to 20°F, double the number of gallons to 600 and read across the table to 30 minutes. The correct size heater would be 30kW

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