



# Ecosmart Pool and Spa Heaters

## Sizing Information

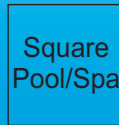
Ecosmart pool and spa heaters are intended to be used on an “on demand” basis. The Temperature Rise Method is most helpful to determine how long it will take your pool or spa to heat to your desired temperature.

First determine how many total gallons are in the pool or spa using the following calculations:



Round Pool/Spa

$$(\text{Length Across}^2) \times 0.7854 \times \text{Depth} \times 7.5$$



Square Pool/Spa

$$\text{Length} \times \text{Width} \times \text{Depth} \times 7.5$$

This gives you the total Volume (V) of your pool or spa. This information can be used to look up the amount of time it will take to heat your pool or spa by the specified temperature on the charts below.

SPA Size									
Gallons	200	300	400	500	600	700	800	900	1000
Minutes to raise SPA temperature 15°F									
SPA 5.5	80	120	160	200	240	280	320	360	400
SPA 11	40	60	80	100	120	140	160	180	200

POOL Size					
Gallons	11000	12000	13000	14000	15000
Hours to raise POOL temperature 5°F					
POOL 18	7.5	8	8.75	9.5	10.25
POOL 27	5	5.5	6	6.5	7

SPA Size									
Gallons	200	300	400	500	600	700	800	900	1000
Minutes to raise SPA temperature 20°F									
SPA 5.5	107	160	213	267	320	373	427	480	533
SPA 11	53	80	107	133	160	187	213	240	267

POOL Size					
Gallons	11000	12000	13000	14000	15000
Hours to raise POOL temperature 10°F					
POOL 18	15	16	17.5	18.75	20.5
POOL 27	10	11	12	12.5	13.5

SPA Size									
Gallons	200	300	400	500	600	700	800	900	1000
Minutes to raise SPA temperature 25°F									
SPA 5.5	133	200	267	333	400	467	533	600	667
SPA 11	67	100	133	167	200	233	267	300	333

POOL Size					
Gallons	11000	12000	13000	14000	15000
Hours to raise POOL temperature 15°F					
POOL 18	22	24	26	28	30.5
POOL 27	15	16	17.5	18.75	20.25

SPA Size									
Gallons	200	300	400	500	600	700	800	900	1000
Minutes to raise SPA temperature 30°F									
SPA 5.5	160	240	320	400	480	560	640	720	800
SPA 11	80	120	160	200	240	280	320	360	400

POOL Size					
Gallons	11000	12000	13000	14000	15000
Hours to raise POOL temperature 20°F					
POOL 18	30	32	35	37.75	41
POOL 27	20	22	23.5	25	27

\*\*Times do not account for heat loss - actual heat up times may vary.