

Sunbather National Evaporation Facts

Evaporation & your pool

Fact: An average **heated** swimming pool in Australia will lose almost twice it's volume of water every year from evaporation. In the hotter areas it's even more. An average heated 8 x 4m pool will lose almost 80,000 litres of water each year if it's heated year round.

HOW BIG IS YOUR POOL			
Pool Length	Pool Width	Average Depth	Total Volume
7m	3m	1.3m	27,300 litres
8m	4m	1.3m	41,600 litres
10m	5m	1.3m	65,000 litres
25m	12m	1.3m	390,000 litres

That's a lot of water when the Bureau of Meteorology states that the average household uses 280,000 litres.

Although evaporation is significant water loss for a pool owning household, the good news is that it's cheaply & easily fixed...**install a Sunbather Thermal Cover!**

To calculate the volume of your pool use the simple formula:

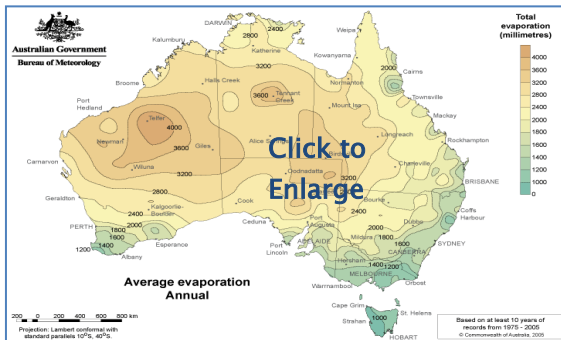
$$\text{Length (m)} \times \text{Width (m)} \times 1300 \text{ (average Depth)} = \text{Total Volume in Litres}$$

So what are evaporation rates around Australia?

In Australia climatic conditions are very different. The following figures are quoted for **Unheated** Pool Losses.

A pool is on average 1300mm deep or 1.3m so you can see from the table that it will lose at least it's own volume every year. If a pool is **heated**, the rate of evaporation increases by more than 50% as the body of water is consistently warmer, hence faster evaporation.

A Sunbather Thermal Cover will save up to 95% of the quoted figures!



EVAPORATION LOSSES – UNHEATED				
Capital City	Annual Evaporation	Water Loss 30sqm Pool	Water Loss 40sq/m Pool	Water Loss 50sq/m Pool
Sydney	1400 mm	42,000 litres	56,000 Litres	70,000 Litres
Melbourne	1400 mm	42,000 Litres	56,000 Litres	70,000 Litres
Brisbane	1500 mm	45,000 Litres	60,000 Litres	75,000 Litres
Perth	1800 mm	54,000 Litres	72,000 Litres	90,000 Litres
Adelaide	1900 mm	57,000 Litres	76,000 Litres	95,000 Litres
Hobart	1100 mm	33,000 Litres	44,000 Litres	55,000 Litres
Darwin	2200 mm	66,000 Litres	88,000 Litres	110,000 Litres

What affects my pools evaporation?

Evaporation is effected by several factors:

- **Wind speed:** the higher the wind speed, the more evaporation. In fact a gentle breeze can double the evaporation rate.
- **Temperature:** the higher the temperature, the more evaporation.
- **Humidity:** the lower the humidity, the more evaporation, and vice versa. That means that tropical climates have less evaporation than drier climates.
- **Rain water:** The great thing about a pool cover is that rainwater will stay in your pool. Unfortunately the effect of rainwater on evaporation is minimal as it will probably run out the overflow pipe.

How much will a pool cover save me?

If a pool cover is used diligently it will save up to **95%** of your water evaporation. On a 40sqm unheated Sydney pool that's over 50,000 litres. A small 2000L water tank won't come close to those savings and will probably cost more to install than a pool cover if you need an electric pump.

WATER SAVINGS WITH A POOL COVER				
Capital City	Evaporation Savings	Savings 30m² Pool	Savings 40m² Pool	Savings 50m² Pool
Sydney	1330 mm	39,900 litres	53,200 Litres	66,500 Litres
Melbourne	1330 mm	39,900 Litres	53,200 Litres	66,500 Litres
Brisbane	1425 mm	42,750 Litres	57,000 Litres	71,250 Litres
Perth	1710 mm	51,300 Litres	68,400 Litres	85,500 Litres
Adelaide	1805 mm	54,150 Litres	72,200 Litres	85,500 Litres
Hobart	1045 mm	31,350 Litres	41,800 Litres	52,250 Litres
Darwin	2090 mm	62,750 Litres	83,600 Litres	104,500 Litres

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