

Calculate Your Pool Volume

There is a fairly simple formula to determine how many gallons of water your pool holds:

Length x Width x Avg. Depth x Multiplier= Gallons

Multipliers:

Rectangle, Square, or Free-form: 7.5 multiplier

Round: 5.9 multiplier

Oval: 6.7 multiplier

Kidney: 7.0 multiplier

Average Depth: To calculate the average depth simply find the depth of the shallow end and the depth of the deep end, add the two numbers, and divide by two.

Rectangular & Square Pools

Length x Width x Average Depth x 7.5

Example: 16' x 32' rectangular pool with 3' shallow end and 7.5' deep end

Average Depth: $3 + 7.5 = 10.5$, $10.5 \div 2 = 5.25$

$16 \times 32 \times 5.25 \times 7.5 = 20160$ Gallons

Round Pools

Diameter x Diameter x Average Depth x 5.9

Example: 24' round pool with a flat bottom, 48" wall height (converted to 4')

$24 \times 24 \times 4 \times 5.9 = 13593.6$ Gallons

Oval Pools

Length x Width x Average Depth x 6.7

Use the longest & widest points of your oval pool, respectively, for the Length and Width measurements.

Example: 12' x 24' oval pool with a flat bottom, 52" wall height (converted to 4.33')

$12 \times 24 \times 4.33 \times 6.7 = 8355.17$ Gallons

Kidney Pools

Average Width x Full Length x Average Depth x 7.0

Average Width is determined by adding the widest points of your pool at each end and then dividing by 2.

Example: 32' long kidney pool, with 14' and 17' widths, with 3' shallow end and 6' deep end

Average Width: $14 + 17 = 31$, $31 \div 2 = 15.5$

Average Depth: $3 + 6 = 9$, $9 \div 2 = 4.5$

$32 \times 15.5 \times 4.5 \times 7 = 15624$ Gallons

It's important to remember that these figures are close approximations and may vary slightly from the true number of gallons in your pool. However, these calculations will go a long way into making sure you are maintaining your pool properly.