Pool Water Treatment Tables

Volume Calculations

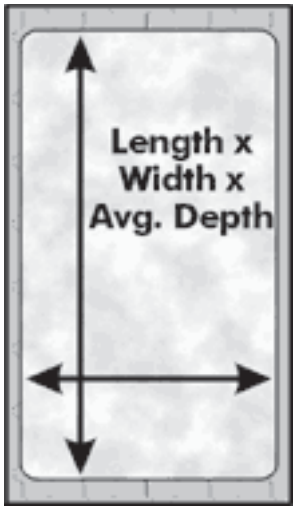
Chemical adjustments are vital to proper sanitation and water balance. Since adjustments are based on the volume of water in the pool or spa, it is important to calculate the volume correctly. The following formulas may be used:

1. Rectangular or square shaped pool (length x width x average depth x 7.5)

Example 1:

length = 40 feet
width = 20 feet
avg. depth = 4.5 feet

40 x 20 x 4.5 x 7.5 = 27,000 gallons
(x 3.785 liters/gallons) = 102,195 liters



Example 2:

length = 32 feet
width = 16 feet
avg. depth = 4 feet

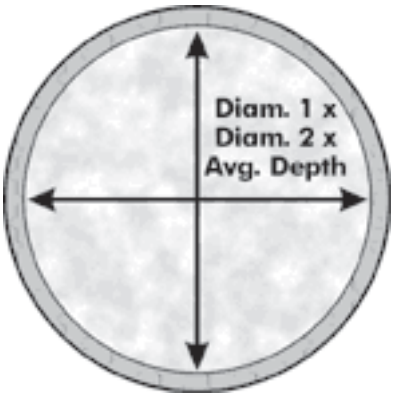
32 x 16 x 4 x 7.5 = 15,360 gallons
(x 3.785 liters per gallon) = 58,138 liters

2. Any circular shaped pool (diameter 1 x diameter 2 x average depth x 5.9)

Example 3:

diameter 1 = 20 feet
diameter 2 = 20 feet
avg. depth = 4 feet

20 x 20 x 4 x 5.9 = 9440 gallons
(x 3.785 liters per gallon) = 35,731 liters



Example 4:

diameter 1 = 10 feet
diameter 2 = 25 feet
avg. depth = 4 feet

10 x 25 x 4 x 5.9 = 5900 gallons
(x 3.785 liters per gallon) = 22,332 liters

3. Circular Spa

(diameter 1 x diameter 2 x average depth x 5.9)

Example 5:

diameter 1 = 4 feet

diameter 2 = 4 feet

avg. depth = 3 feet

4 x 4 x 3 x 5.9 = 283 gallons (x 3.785 liters per gallon) = 1,071 liters

Adjusting pH

It is recommended that dry chemicals first be mixed into a generous amount of water in increments of about two pounds, and the predissolved mixture be distributed evenly around the pool unless directed otherwise.

Precautions

* Never add water to chemicals; always add chemicals to water.
* Always follow manufacturer's recommendations and warnings on product labeling.
* Never mix two chemicals together since their pH might vary and could cause an explosion or fire.

A pH range of 7.2 - 7.8 is ideal for pools and spas. Since 7.5 is the midpoint of this range, we have provided the tables below to help in adjusting up or down to this pH. After testing the pH, find the pH in the left hand column and match this with the volume of water in your pool or spa, listed at the top of the table. Since the recommendations are approximate, you may wish to initially add slightly less and wait 4-8 hours to retest the water. Keep in mind that pH adjustments will affect alkalinity.

Lowering pH to 7.5 with Muriatic Acid

Notes:

Treatment recommendations are affected by total alkalinity. At low alkalinity levels less acid may be required and at higher alkalinity levels more acid may be required.

Starting from	100 Gal.		1,000 Gal.		5,000 Gal.		10,000 Gal.		20,000 Gal.		50000 Gal.	
pH	—	Tsp	Pts	oz	Pts	oz	Pts	oz	Pts	oz	Pts	oz
7.6 - 7.8	—	0.75	0	1.3	0	6.4	0	12.8	1	9.6	4	0
7.8 - 8.0	—	1	0	1.9	0	9.6	1	3.2	2	6.4	6	0
8.0 - 8.4	—	1.5	0	2.6	0	12.8	1	9.6	3	3.2	8	0
>8.4	—	2	0	3.2	1	0	2	0	4	0	10	0