How to Calculate Your Pool Turnover Rate

**What is turnover rate?** The amount of time it takes for all of the water in your pool to be circulated through the pump/filter system. If the water is circulated twice a day then the turnover rate is 12 hours. If the water is circulated 4 times a day then the turnover rate is 6 hours. Use your total pool gallons and your gallons per minute (GPM) from the flowmeter to determine your pool turnover rate.

**Turnover Rate in Minutes = (Pool Gallons)**

**GPM**

**Turnover Rate in Hours = (Turnover Rate in Minutes)**

**(60)**

Example:

We want to know the turnover rate in our 25,000 gallon pool if our flowmeter reads 70 GPM.

(25,000 gallons)/(70 GPM) = 357 minutes,

(357 minutes)/(60) = 5.95 hours

The turnover rate in this 25,000 gallon pool is approximately 6 hours.

# What if required turnover rate?

* If your pool was built **before 4/12/90,** the turnover rate must be at least **once every 12 hours.**
* If your pool was built **after 4/12/90,** the turnover rate must be at least **once every 6 hours.**

How do you calculate your required GPM to achieve proper turnover rate?

**GPM = (Pool Gallons)**

**(Turnover in Minutes)**

**Turnover in Minutes = (Turnover in hours) x (60)**

Example:

We want turnover in our 25,000 gallon pool to be 6 hours (6 hours) x (60) = 360 minutes

(25,000 gallons)/(360) = 69 GPM

So we should have approximately 70 gallons going through the pump/filter every minute to achieve a turnover rate of 6 hours

# Calculate your own required GPM:

First determine what your required turnover rate should be (6 or 12 hours). Now fill in the blanks below.

**GPM = / (Pool Gallons) (Turnover in Minutes)**

Hint: 6 hours = 360 minutes, 12 hours = 720 minutes