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Acqua Nita Services, Inc.

February 07

Volume 1, Issue 6

Choosing an Energy Efficient Pump

When selecting a pump for your spa or pool, it is important to determine the desired rate of flow in GPM (gallons per minute). It is also important to consider the flow demand of features such as spas, fountains, automatic pool cleaners, and in-floor cleaning systems. It is also important to think about other features such as energy efficiency, ease of service and durability. It is not always a good idea to choose a 2 HP pump just because your pool builder put a 2 HP pump on it. He may not have done his homework.

Factor #1 The Pool's Required Flow Rate

The pump must have a minimum flow rate in GPM (gallons per minute) that will allow it to move all the water through the filter within a given amount of time. The size and usage of the pool is the first item to consider in order to determine what the minimum flow rate is.

Factor #2 The Pool's Features

Your pool may have certain features that require more flow in order to be effective. For instance, spa jets need a certain amount of flow in order to be effective. Some automatic pool sweeps increase the flow requirements of the pump.

Factor #3 The Plumbing of the Pool

The plumbing of your pool is only designed to carry so much water per minute. If you exceed this amount, you will be wasting energy and can end up damaging the pump.

Factor #4 Pool Equipment

The pump should be properly matched to the filter. An oversized pool pump can damage the filter internals or force the water through the filter at such a high rate that the filtration is no longer effective.

The first job of the pool pump is to circulate the pool water through the filter and back out to the pool. To do so, the pump must have a minimum flow rate in GPM (gallons per minute) that will allow it to move all the water through the filter within a given amount of time.

Pool Covers, Why Use Them?

First, a cover lets the pool stay cleaner longer by helping to seal out dirt and debris. Because of this, covered pools use less chemicals — as much as 70 percent less, according to industry studies; adding fewer chemicals can also significantly increase the life expectancy of pool plaster and equipment.

Pool covers also make good sense as far as energy efficiency is concerned. Florida Power & Light (FPL) informs us that two thirds of your pool heat escapes from the water's surface, by using a solar cover, you can help keep the heat in the pool, and cut heating costs in half. A solar cover can pay for itself in one swimming season; even unheated pools will stay warm longer if a cover is used — extending the swimming season by keeping natural heat in longer. Studies also prove that covered pools can stay warmer by as much as 10 to 15 degrees.

Because the circulation system doesn't have to work as hard, covers can also reduce electricity costs. And, depending on climatic conditions and usage, a properly installed and used cover can save water, too.

Industry studies show that evaporation can be cut by as much as 90 percent by using a pool cover. This saving on water has side benefits as well, especially in the area of reducing water hardness and the buildup of total dissolved solids.

Of course, on the safety front, pool covers provide one of the most effective "layers of protection" by sealing off the water from unintended use by your children.

What cover is best for your pool? Manual or automatic? Are you looking for safety? Or to keep in the heat? Whatever the reason there is a cover for your specific need. To find out the pool cover that best fits your needs please contact Acqua Nita Services

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Acqua Nita Services, Inc.

Phone: 954-224-7733
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Pump / Motors (Continued from Page 1)

To determine the minimum flow rate you must do two things:

- Determine the capacity of your pool in gallons.
- Determine the desired turnover rate.

In other words, how long should it take to move the entire contents of your swimming pool through the filter? Divide the pool gallonage by the turnover rate to determine the minimum flow rate per hour. Divide that number by 60 to determine the minimum flow rate per minute.

Gallons In Pool	Flow Rate Required for Proper Turnover		
	6 hr. turn-over (high use)	8 hr turn-over (medium use)	10 hr turn-over (low use)
10,000	27.8	20.8	16.7
15,000	41.7	31.3	25.0
20,000	55.6	41.7	33.3

If the pool holds 20,000 gallons of water and enjoys a medium level of usage, you would look at the 20,000 gallon line and go to the 8 hour turnover column (for medium use). You would find that the pool requires a 41.7 gallon per minute flow rate to achieve proper turnover. To find out the pump that will deliver the best level of performance that your pool needs contact Acqua Nita Services.

Happy with your service?

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Complete the form below and fax it to 954-255-1982 or contact Acqua Nita Services directly.

Name: _____

Address: _____

Type of Pool: _____

SPA: _____

Phone number: _____

Email address: _____

Your Name: _____

Your Phone Number: _____