

Robotic Pool Cleaner - The Concept Behind the Machine

So you might have a swimming pool at your home, or you were just wondering how on earth those robotic pool cleaners work, such as the [Aquabot pool cleaner](#) or the Dolphin. Well wonder no more!!

In fact the pool robots have a pretty simple method of work (smart and simple I would say). Most pool cleaning robots have a drive motor a pump and a processor.

The pump is drawing the water from the bottom of the robot where the intake valves are located, through the filter and out to the top outlet of the cleaner. During that process debris and dust that are on the pool surfaces, being vacuumed into the filter section. Particles that are large enough stay inside the filter unit until cycle is done and disposal is being removed. The drive motor is made to give the pool cleaner a directional movement but it does not determine the route. The drive motor is driving the drive belts and the drive belts are driving the wheels or wheel tubes depending on the model.

The processor is made to determine the cycle time of the motors to a specific direction. The more advanced models have more advanced processors in which it remembers the pool's size and shape and determines the most efficient route to clean the entire pool.

The more time goes by the faster the technology changes but still the concept is the same.

the newer units will have better routing systems, and are becoming more efficient and would clean the pool much faster.

About the Author

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