

Farrar Green Home Green Pool



What is a Green Pool?

In sunny Southern California, a swimming pool is an integral part of a home's landscape and a family's lifestyle. The Farrars wanted to build a pool in this coastal desert area that is as gentle on the environment as possible. Their innovative design results in an exceptionally green pool. The small 10' x 22' pool, with its Swim Gym, has all of the benefits of an infinite lap pool in a very small space. The pool and spa are completely covered by an Alternative Pool Systems electric retractable cover, which helps prevent evaporation and keeps the pool clean. The pool uses the latest in LED lighting, pump, filter and control technology to minimize the power and water consumption. And the greenest feature of all is that the pool and spa are heated by the same ground source geothermal heat pump that heats and cools the Farrar Green Home. The swim gym, heat pump, and pool pumps are all powered entirely by solar energy generated by the photovoltaic solar panels.

How Does it Work?

The Swim Gym motor generates a current at the push of a button, allowing a swimmer to "swim in place". Like a runner on a treadmill, the swimmer has complete control of the speed of the current. In the mild So. Cal climate, the heating and cooling system for a home is used only at the peak of the summer and in the middle of the winter. For the rest of the year, the home's geothermal heat pump, which uses the solar energy stored in the earth, will be used to heat the pool (and spa) to a comfortable 80 degrees. The excess heat that is generated from running the heat pump will be used to provide the home's hot water. The Farrar's zero emission pool and spa will not need the traditional carbon emitting gas heater.

Benefits:

- Small pool costs less to build and maintain
 - Requires less water
 - Needs less chemicals to keep clean
- Geothermal energy for year round heating
 - No carbon emissions
 - No gas heater or gas bill
 - No power bill
- High efficiency pumps and filters use less power
- Smart control system optimizes operation and lessens environmental impact

