Recycle Your Rain

Rainwater harvesting is the process of collecting and storing rain for future use. This process uses a catchment system to decrease runoff and collect rainwater. Rain barrels are one form of catchment systems that are popular for residential use. A rain barrel collects and stores rainwater from a roof that would otherwise be lost to runoff and diverted to storm drains and streams. A typical rain barrel is composed of a 55-gallon drum, a vinyl hose, PVC couplings, and a screen grate to keep debris and insects out. A rain barrel is relatively simple and inexpensive to construct and can sit conveniently under any down spout.

According to the US Environmental Protection Agency, lawn and garden watering make up nearly 40% of total household water use during the summer. A rain barrel collects water and stores it for when you need to water plants or wash a car. Rain barrels provide an ample supply of free "soft water."

The EPA also notes that a rain barrel can potentially save most homeowners about 1,300 gallons of water during the peak summer months. Saving water not only helps protect the environment, it saves you money and energy by decreasing your demand for treated tap water (i.e. reducing your monthly water bill). A rain barrel is an efficient, simple, and low cost alternative for achieving a consistent supply of clean, fresh water for outdoor use, while simultaneously conserving water and saving energy expenses.

While collecting the water via a rain barrel seems easy, actually getting the water out of the barrel proves a rather difficult task. As the rain barrel's water pressure is dependent upon the height of its stored water, historical applications relied upon elevating the barrel to achieve the desired water pressure at its outlet. In the past, if you wanted a pump in your rain barrel, you were reliant upon an electrician to install the appropriate power connection and subsequently source the desired pump.

The RainPerfect™ solar powered pumping system solves these issues by providing an efficient, economical, and robust solution to your rain barrel water pressure requirements.