

Solar Innovations, Inc. Introduces Hydronic Heating Systems

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Pine Grove, PA, January 4, 2012- Solar Innovations, Inc., a custom manufacturer of residential and commercial greenhouses; conservatories; sunrooms; skylights; and more, introduces Hydronic Heating Systems.

Heating a glass structure can become costly, if sufficient equipment and planning have not been taken into consideration. With traditional energy costs rising, alternative heating sources are becoming increasingly popular. Solar Innovations, Inc. now offers a [Hydronic Heating System](#) which works in conjunction with solar thermal panels, and utilizes water as a conductor of heat. The solar panels are typically placed on a building's roof or side where they receive exposure to the sun, and in turn heat the temperature of water. Hot water is then circulated through the home or glass structure by way of piping and eventually returns to the heating unit. The water then receives solar exposure through a closed loop system and is recirculated. As the solar thermal panels will produce less heat on overcast days, a backup unit can be added that is powered by oil, gas, or electricity.



There are numerous benefits to heating a structure with a combination of [Hydronic heat](#) and solar thermal panels. Most importantly, there is an immediate savings; the need to regularly purchase fuels like oil, coal, or air filters will be greatly reduced. Another benefit of the system is cleanliness; traditional forced air heating units employ ductwork which can accumulate dust. As air is pumped through the ductwork, this dust is forced into the living space. Hydronic heating does not use ductwork or filters, thus eliminating the deposit of dust. This fact makes [Hydronic heat](#) an exceptional option for greenhouses. The accumulation of dust has the potential to prevent growth and possibly damage plants. Hydronic heating systems are silent, featuring no blowers; customers will notice the lack of noise pollution. These systems do not require large heating ducts; instead, they use piping, which is a less invasive installation. Although Hydronic systems use pipes, a backup system may still require duct work.

An even temperature is consistently distributed throughout the space by [Hydronic heat](#). These even temperatures are useful in a greenhouse because all plants receive an equal amount of heat. This is especially helpful in orchid greenhouses, as orchids call for a particular environment of high humidity and constantly warm temperatures.



Hydronic heating systems can also work in conjunction with radiant floor heating, which utilizes tubes that are placed below a floor and circulate heated water. This option helps maintain a consistent temperature throughout a given area by warming cold floors such as tile or cement. These floors then act as a thermal mass and retain heat throughout the day. By this method, heat rises from the floor to the ceiling, resulting in a less significant loss of heat. Objects located near radiant heat sources absorb heat quickly; furniture and other objects in contact with the floor benefit from heat transfer and are not cold to the touch. Radiant heat can be beneficial in greenhouse and conservatory flooring.

Solar Innovations, Inc.'s Alternative Energy Specialists will work with customers to determine which [Hydronic Heating system](#) will work best for you, please contact Solar Innovations, Inc. today. To speak with a Solar Innovations, Inc. alternative energy specialist, please contact us at 800-618-0069 or skylight@solarinnovations.com.