

Anon. 1975. System where day heat is stored in water and circulated by night. *The Grower*. 84(12):492.

The British firm Filclair has developed a system called "Sunstock," relying on the circulation of water through 13 or 20 inch diameter flexible black plastic ducts resting on the soil surface. Among the advantages claimed are low temperature differential between water and air since the ducts cover a large proportion of the soil surface, low pressure with slow circulation rate, heat is delivered at the level it is needed, evaporation from the soil is reduced, and solar energy during the day is readily absorbed by the ducts.

According to Filclair, when the outside temperature was 23°F, a 53.6°F inside temperature could be maintained by circulating water at 85°F. The temperature of the water is built up during the day as the water circulates through the tubes. According to the results, it is easy to store 15% of the total solar radiation falling on the houses. Sunstock does not offer anything to the grower whose crops require a year round night temperature of 60°F. There are alternatives for heating the reservoir, using conventional boilers or any other heat source. The solar gain would not be lost.

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