



THIS WEEK:

ROOTS – Sustainable Agricultural Technologies LTD.

Significant yield increase with root zone cooling and heating systems.

ROOTS technologies are addressed to find solutions for two major and critical problems in agriculture: how best to increase yield and provide production security with as little energy as possible, and how to provide irrigation water where no water is available whatsoever.

According to ROOTS, clients using their technologies have reported up to 60% yield increase:

- RZTO – Root Zone Temperature Optimization.** Root temperatures influence all parameters of plant's physiology and therefore, attaining and maintaining optimum root zone temperature range is essential for a plant's robust growth, productivity, and quality. The RZTO tech is a closed-loop system providing optimal root zone temperature year round and can be used with any cultivation substrates. For more information please [watch](#).
- D-RZTO** - The RZTO system combined with Drip irrigation and fertilization system 2 in 1. ROOTS unique fertigation system (drip or sprinklers) uses the same controller and same water pipe used for the heating and cooling of the roots zone for irrigation purposes. According to the company, the system is easy to operate due to the use of only one control panel for controlling both roots zone temperature and irrigation. Also, Using the same water pipe and controller for both irrigation/fertilization and heating/cooling is cost-effective.
- IBC – irrigation by condensation:** A standalone, closed-loop, solar-operated system for irrigation of crops by condensing water from moisture/humidity in the air on the external surface of pipes. The system's insulated water tank is filled once, thereafter the water is continually cooled to below the dew point, and the humidity that condenses on the pipes flows to the soil and is used to irrigate the crops with pure, chilled water. For more information please [watch](#).



ROOTS is looking to connect with: **A. Distributers that will help promote and install its technologies. B. Farmers worldwide. C. Project companies in the agricultural sector.**
For more information please visit the [website](#) or contact: mark@rootssat.com