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Roots to target nursery and cannabis markets with proprietary heat exchange stub

- **Roots has developed a proprietary heat exchange stub to cater primarily to the nursery, cannabis and greenhouse markets.**
- **Designed to be inserted into the top of pots and grow bags of high-value crops, such as berries, cannabis and grapevines.**
- **The stub reduces labour and installation costs of Roots' Root Zone Temperature Optimisation (RZTO) systems.**
- **The stub has been successfully tested at Roots' research hub in Israel.**

Roots Sustainable Agricultural Technologies Limited (ASX: ROO, Roots or Company) has developed a patent-protected heat exchange stub to control pot, grow bag and soil temperatures in the lucrative nursery, cannabis and greenhouse markets.

Designed to be inserted into the tops of pots and grow bags, the stub significantly simplifies and lowers the installation costs of Roots' Root Zone Temperature Optimisation technology.

The stub enables the mobility of pots and grow bags during the growing cycle while chains of stubs with insulated pipes in-between can be used for row installations.

During a pilot at Roots' research hub in Israel, the stub effectively maintained soil temperatures in pots at optimal ranges despite extreme air temperatures of over 40 degrees centigrade.

The stub will be an additional source of post-sale revenue offered alongside monitoring, control and ag advisory services.

Roots' CEO, Dr. Sharon Devir said, "Roots' heat exchange stub enables the company to cost-effectively introduce its RZTO technology into the nursery, cannabis and greenhouse markets, where pots are used in large quantities and soil temperature control is a major challenge.

"Roots' proprietary stub enables producers to stabilise pot and grow bag soil temperatures year-round, increases pot manoeuvrability as well as significantly reduce costs associated with RZTO installation.

"Production of the stub is already at commercial levels and Roots is in advanced discussions with a number of nursery and greenhouse growers. We believe our latest innovation offers significant opportunities for the company within an unaddressed nursery market."



From left to right: The stub installed above pots at Roots' research and development hub in central Israel; and the newly developed stub for heat exchange in the ground.

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About Roots Sustainable Agricultural Technologies Ltd:

Israeli-based, Roots Sustainable Agricultural Technologies Ltd. is developing and commercialising disruptive, modular, cutting-edge technologies to address critical problems being faced by agriculture today, including plant climate management and the shortage of water for irrigation.

Roots has developed proprietary know-how and patents to optimise performance, lower installation costs, and reduce energy consumption to bring maximum benefit to farmers through their two-in-one root zone heating and cooling technology and off the grid irrigation by condensation technology.

Roots is a graduate company of the Office of the Israeli Chief Scientist Technological Incubator program. More information www.Rootssat.com

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