

02 October 2019

Roots secures A\$87,000 RZTO sale with proprietary new heat exchange stub

- **Roots has secured an A\$87,000 signed order of its RZTO technology utilising its newly developed heat exchange stub from Israeli medicinal cannabis producer UNIVO.**
- **Designed to be inserted into the top of pots and grow bags, the T-shaped stub simplifies installation and maintenance of Roots' RZTO technology.**
- **Under the agreement, Roots will install its proprietary RZTO technology and heat exchange stub into cannabis pots at UNIVO's growing facilities.**
- **Sale follows a successful in-house pilot utilising Roots' heat exchange stub at the company's research hub in Israel.**

Roots Sustainable Agricultural Technologies Limited (ASX: ROO, Roots or Company) has received an A\$87,000 signed order of its Root Zone Temperature Optimisation (**RZTO**) technology combined with its newly developed heat exchange stub from Israeli cannabis producer UNIVO to control soil temperatures in pots and grow bags.

Under the agreement, Roots will utilise its patent-protected heat exchange stub to install its RZTO technology into thousands of cannabis pots at UNIVO's Israeli growing facilities. Installation is due to commence in October and will be completed in December 2019.

Designed to be inserted into the tops of pots and grow bags, the stub significantly lowers the installation and maintenance costs of Roots' RZTO technology. Temperature-controlled water enters the T-shaped stub from the side, flows down the vertical shaft exchanging heat with the substrate, before exiting the stub on the other side.

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

The sale follows an in-house pilot at Roots' research hub in Israel, where the stub effectively maintained soil temperatures in pots at optimal ranges despite extreme air temperatures.

Roots' CEO, Dr. Sharon Devir said, "Roots' heat exchange stub is ideal for high-value greenhouse crops such as cannabis, where optimal soil temperatures have been proven to increase crop quality and yield year-round.

"The stub enables producers to stabilise soil temperatures to mitigate the effects of external weather conditions, such as extreme heat or cold, without requiring additional heating and cooling systems within the greenhouse or nursery.

"This sale to a medicinal cannabis producer is a testament to the effectiveness of our RZTO technology within pots and grow bags. Suitable for all crops grown in pots or grow bags, we believe our heat exchange stub will open up new markets and opportunities for our two-in-one heating and cooling technology."



The T-shaped stub installed in pots at Roots' research and development hub in central Israel.

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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

About UNIVO:

UNIVO (TASE: UNVO 285.3 (%)) is a vertically-integrated medical cannabis company including cultivation, manufacturing and distribution as well as the creation of innovative products and dosage forms for next-generation medical cannabis products. UNIVO holds initial licenses for the entire supply chain:

- Growing, breeding and nursery
- Production of medical cannabis products
- Research and development
- Distribution

UNIVO will source its own cannabis by way of a partnership with Amit Farms, located in the South of Israel covering over 75,000m² with 15,000 m² designated for cannabis growth. The farm will use state-of-the art innovative agricultural technologies to grow high quality cannabis and develop its own strains targeted to meet specific therapeutic needs.

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