

RUTH

Agriculture systems & Chemicals LTD

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Maximum energy from sun



KEEPING SOLAR PANELS CLEAN WITH TAL-AUTOMATIC CLEANING SYSTEM

www.ruth-agri.com

- ✓ Completely automatic
- ✓ Compatible to all types of installation formats.
- ✓ Operate on network by remote workstations
- ✓ Cost effective – ROI in a short time
- ✓ Self-design of unique sprinkler for this purpose
- ✓ Safe! eliminate risks of working with high voltage and water



Company profile

Over 25 years of experience in marketing and exporting control systems for agriculture and flowing infrastructure, management and construction of projects in Israel and abroad

Company Vision and purpose

- ▶ To be a significant part of a flexible, agile, innovative, growing and profitable company, this develops and manufactures agricultural control systems, solar collector washing systems.
- ▶ Leading to be a professional and leading company in its field, which provides a complete. Independent and automatic solution for the cleaning and washing systems of solar panels.
- ▶ We invest time and money, while maintaining competitive business activity that will generate profit, pride and well-being for the company, its employees, customers and suppliers.
- ▶ Quality and growing - we are working to grow and develop into new and diverse fields in the consumer products group - combined with all the employees of the company, advanced technology and business innovation, we create quality through quality people and quality products.

AUTOMATIC WASHING SYSTEM - SCHEMATIC VIEW

Unique sprinkler attached to the solar panels



Salt Tank

Electric board with industrial MOTOROLA computer include communication modem and backup battery



When required – water tank to collect soft water with water level control and pump protect when water shortage



Water meter with 1 liter pulls

Stainless steel Pump

Industrial softener

Washing data

- ✓ About 3.5 liter of water per panel
- ✓ Water pressure on sprinkler 3.5 – 4 Bar
- ✓ Using water softener to avoid calcium and magnesium on panel
- ✓ Water hardness – maximum 10 PPM
- ✓ Daily washing or by operator decision
- ✓ Daily analysis of monitoring results and Failure analysis

Operation

- ✓ Each row of panels is washed individually
- ✓ Individual operation schedules for each row of panels
- ✓ Each operation schedule uses a measured, precise, and economical volume of water
- ✓ Protection of water pressure, flow and quantity deviation per cycle
- ✓ Any deviation from the predefined values stops the system and alerts the operator