



### ***Water as needed, when needed...***

- *Wireless soil moisture sensors*
- *Solar-powered operation with no electricity required*
- *Custom irrigation schedule for high-yield with any crop type*
- *Easy to install*
- *Environment friendly*

***50% higher yield***

***40% less water***

***Smart irrigation... Smart investment...***



*Maximum yield with minimum water through using **rainvent**™ custom irrigation schedule.*

*Avoid over-irrigation and salinization with no power or cabling required*

*Modern irrigation is a breeze for anybody with **rainvent**™ .*

**rainvent**™ advanced irrigation system offers a low-cost, practical setup that maximizes the crop yield with optimal use of water resources. Thanks to the state-of-the-art technology that combines wireless communications and advanced agricultural techniques, **rainvent**™ gives the modern farmers the exact tool they need to monitor and control the soil moisture at incredibly low operation and installation costs.

**rainvent**™ performs measurements of soil moisture at multiple points and adjusts irrigation schedule accordingly. The unique advantages of the system for the residential and agricultural users are:

- Maximum crop yield with the right moisture levels at all times
- Conserve water and save up to 40% on water costs
- Protect the environment and the soil against over-irrigation and salinization

All this can be done easily with wireless sensors and solar powered operation of **rainvent**™. The system practically pays for itself within months.



## **Why smart irrigation?**

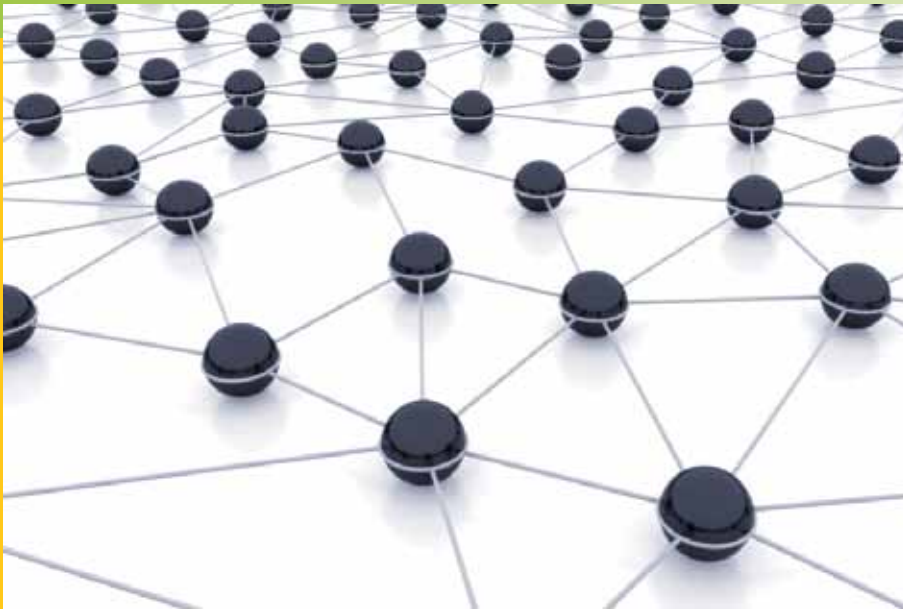
*Shrinking fresh water resources, over-irrigation that devastates fertile land, and increasing global demand for food have made controlled irrigation no longer a luxury.*

***rainvent**'s smart irrigation provides water in the right amount at the right time maximizing the yield for any crop type with no waste of water or harm on the environment.*

*Programmable/controlled irrigation is now possible with **rainvent**™ technology.*

- ✓ **High yield, high quality**  
*Optimum soil moisture maximizes the amount and quality of the produce.*
- ✓ **Save water**  
*Best use of water resources with the right moisture level at all times.*
- ✓ **Protect the soil and the environment**  
*Avoid the hazards of over-irrigation.*





## High-tech for high yield...

Using advanced wireless technology that works entirely by solar energy, no wiring or electrical power is needed to use **rainvent™**. Users can simply install soil moisture measurement units where needed, follow a few steps to program the **rainvent™** system and get the highest possible crop yield with the best use of water for irrigation.

At setup, **rainvent™** allows the choice of a particular crop type and determines an irrigation schedule that maintains the soil moisture at optimum levels. The soil measurement is performed at multiple points and transmitted to the central unit using advanced wireless technology with mesh network support. The central **rainvent™** unit collects the real-time data about the moisture, temperature and other necessary data and automatically determines an irrigation schedule. **rainvent™** works with any irrigation technique and is especially optimized for drip-irrigation and sprinkler systems.



Technical Specifications	
Wireless Operation frequency:	2,4 GHz
Crop types	Programmable
Irrigation types	Sprinkler, Drip, Others.
Measurement types	Humidity : %0 - % 100
	Temperature: -25 °C - 85 °C
Fertigation [optional]	Liquid
Measurement depth(s)	30 / 60 / 90 cm
Dimensions	Main Unit : 165 x 80 x 55 mm
	Sensor Unit : 115 x 65 x 55 mm
	Sensor : ø 25mm , 130 mm
Solar battery life	5 years
Wireless operation range	Dense vegetation
	Flat terrain 150 m
	Amplifier 1000-1500 m


**rainvent**  
 smart irrigation

[www.rainvent.com](http://www.rainvent.com)